

Scout Report sent out
 Noted in the NID File
 Location map pinned
 Approval or Disapproval Letter
 Date Completed, P. & A. or
 operations suspended
 Pin changed on location map
 Affidavit and Record of A & P
 Water Shut-Off Test
 Gas-Oil Ratio Test
 Well Log Filed

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11-16-57

Converted to water injection (August, 1962 - started injecting)

FILE NOTATIONS

Scout Report in NID File	<input checked="" type="checkbox"/>	Checked by Chief	<input type="checkbox"/>
Noted in O & P Sheet	<input checked="" type="checkbox"/>	Copy NID to Field Office	<input type="checkbox"/>
Location Map Pinned	<input checked="" type="checkbox"/>	Approval Letter	<input checked="" type="checkbox"/>
Card Indexed	<input checked="" type="checkbox"/>	Disapproval Letter	<input type="checkbox"/>
I W 2 for State or Fee Land	<input type="checkbox"/>		

COMPLETION DATA:

Date Well Completed: 11/16/57 Location Inspected: _____
 GW ☒ RW _____ TX _____ Bond released _____
 CGW _____ CSI _____ PWS _____ State of Fee Land: _____

LOGS FILED

Driller's Log: 3/31/58

Electric Log: (No) 15

E ☒ E-I ☐ GR ☐ GR-N ☒ Micro ☐
 Lat _____ Mi-L _____ Sonic _____ Others _____

*Temperature
 Section Gauge
 Radioactivity*

(SUBMIT IN TRIPLICATE)

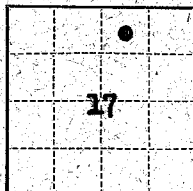
Indian Agency

Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee

Lease No. 14-20-603-263



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 16, 1957, 19

Navajo Tract 114

Well No. 8 is located 660 ft. from $\begin{matrix} N \\ \times \end{matrix}$ line and 1980 ft. from $\begin{matrix} E \\ \times \end{matrix}$ line of sec. 17

NW NE Section 17 41S 25E SLM

(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

McElmo Creek San Juan Utah

(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft. 4645' Ungraded

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Rotary drilling equipment will be used to drill to approximately 5600' to test the potentially productive Hermosa and Paradox formations. Surface Casing: Approximately 1400' of 10-3/4" OD 32.75# & 40.5# smls casing as required, casing to be cemented to the surface. Oil String: 7" OD 20 & 23# smls casing as required, cemented with required amount of cement. Mud: conventional and or/gyp or salt base mud as required. Drill stem tests: all oil & gas shows will be tested. Logs: Electric logs etc will be run before setting casing or abandonment. Stimulation treatments such as acidizing or hydraulic fracturing may be employed in completion.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 444

Durango, Colorado

COPY (ORIGINAL SIGNED) B. M. BRADLEY

By B M Bradley

Title District Superintendent

LEASE PLAT & PIPE LINE DATA

Navajo Tract 114

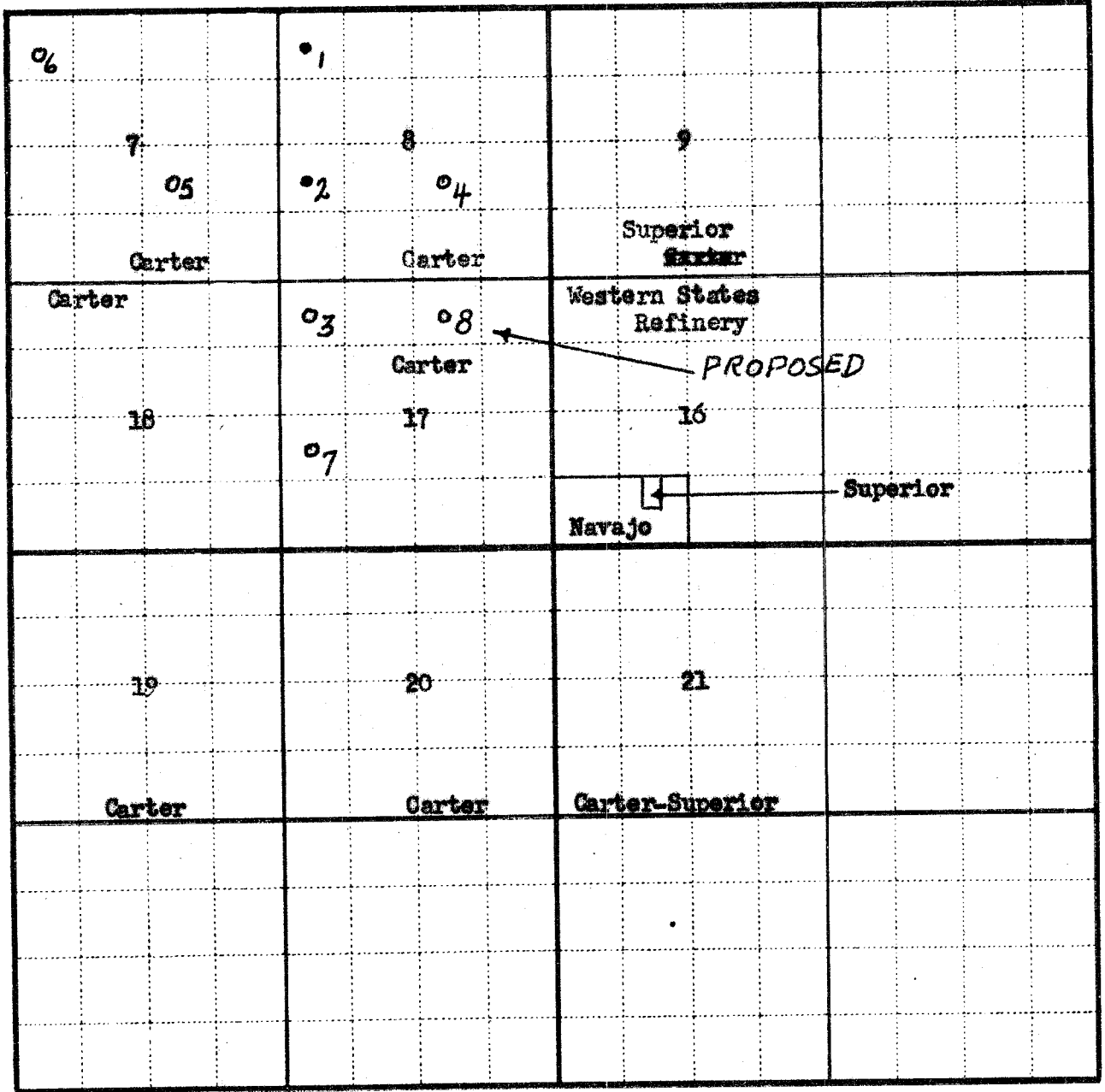
14-20-603-263

DIV. NO. _____ BLOCK NAME _____ LEASE NO. _____
LESSOR _____
TOTAL ACCUMULATED INTEREST _____

STATE _____ COUNTY _____ SEC. _____ T. _____ R. _____ ACRES _____

DESCRIPTION AND INTEREST: **Proposed Location Well #8 - NW NE Section 17-418-25E SLM**

IF USED FOR PIPE LINE DIAGRAM — PLEASE SUPPLY THE FOLLOWING INFORMATION
Total Length and Size of Pipe Laid _____ Pipe Transferred From _____
Total Length and Size of Pipe Taken Up _____ Pipe Transferred to _____
Depth Buried _____ Painted _____ Screw, Welded or Coupled _____ List Fittings (on back of this sheet if necessary)
Date _____ District _____ Farm or Plant _____
Signed _____
(Mail to Engineering Department - Tulsa)



When used as 1/4" Section Scale, 1" = 400'
When used as Section Scale, 1" = 800'
When used as 4 Sections Scale, 1" = 1600'
Place check mark after scale used.

Plat made by _____ Date _____
1/2" Base Map _____ Date _____
Plat Book (Pend.) _____ Date _____ (Comp.) _____ Date _____
Block Map (Pend.) _____ Date _____ (Comp.) _____ Date _____
Block Map Tr. (Pend.) _____ Date _____ (Comp.) _____ Date _____

September 20, 1957

The Garter Oil Company
P. O. Box 444
Durango, Colorado

Gentlemen:

This is to acknowledge receipt of your notices of intention to drill Well No. Navajo Tract 114-8, which is to be located 660 feet from the north line and 1980 feet from the east line of Section 17, Township 41 South, Range 25 East, and Well No. Navajo Tract 115-1, which is to be located 660 feet from the north line and 660 feet from the west line of Section 20, Township 41 South, Range 25 East, S1BW, San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval to drill the above mentioned wells is hereby granted.

Yours very truly,

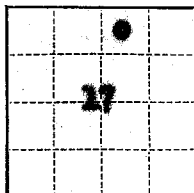
OIL & GAS CONSERVATION COMMISSION

CLEON B. FRIGHT
SECRETARY

CBF:en

cc: Phil McGrath
USGS, Farmington,
New Mexico

HR - USGS



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo
Allottee _____
Lease No. 11-20-403-263

SUNDRY NOTICES AND REPORTS ON WELLS

Notes
cast 11-6

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of setting 7" casing</u>	<u>X</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

November 2, 1957, 19__

Navajo Tract 114

Well No. 8 is located 660 ft. from N line and 1980 ft. from E line of sec. 17

NW NE Section 17 413 252 SLN

(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

McElmo Creek **San Juan** **Utah**

(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4652 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudlogging jobs, cementing points, and all other important proposed work)

TD 5620' - Ran 1586' of 7" OD 23# J-55 mls casing and 4046' of 7" OD 20# J-55 mls casing (Threads off), set at 5620' and cemented with 400 sacks Pozmix with 2% gel, pumped plug to 5583', maximum pressure 1500#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 444

Durango, Colorado

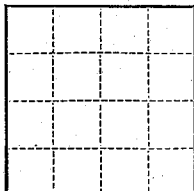
By COPY (ORIGINAL SIGNED) CHAS. C. JOHNSON
Chas C Johnson
Title District Chief Clerk

W/

(SUBMIT IN TRIPLICATE)

Indian Agency NavajoUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee _____

Lease No. 14-20-603-263

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	Report of Drill Stem Test	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

November 2, 1957

Navajo Tract 114
Well No. 8 is located 660 ft. from N line and 1980 ft. from E line of sec. 17
NE Section 17 135 25E S1M
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
No. Elmo Creek San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4652 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

DST #1 - 5415-5495'. Tool open 2 hours, 21 minutes, very good blow, gas to surface in 5 minutes. 15 minutes 102 MCF/D. 35 minutes 95 MCF/D. 70 minutes 45 MCF/D. Gas decrease dead 2 hours, 20 minutes, recovered 2685' oil. Gravity 39 @ 60°, IHP 3055#, FHP 3055#, 20 minutes ISIP 2160#, IFP 200#, FFP 520#, 30 minutes FSIP 1835#.

DST #2 - 5514-5597'. Open tool with good blow which continued throughout test, tool open 2 hours, recovered 40' drilling fluid. IS 225 for 20 minutes, FS 240 for 30 minutes, IF 18, FF 50, IHP 3035#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company THE CARTER OIL COMPANYAddress Box 1444Durango, Colorado

COPY (ORIGINAL SIGNED) CHAS. C. JOHNSON
Charles C. Johnson
Title Chief District Clerk

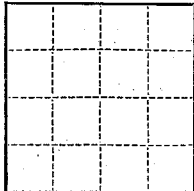
(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee

Lease No. 11-20-603-263



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of Setting Casing</u>	<u>X</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

November 2, 1957

Navajo Tract 11h

Well No. 8 is located 660 ft. from N line and 1980 ft. from E line of sec. 17

NW NE Section 17
(1/4 Sec. and Sec. No.)

11S
(Twp.)

25E
(Range)

SLM
(Meridian)

Mc Elmo Creek
(Field)

San Juan
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is 4652 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded 4:30 AM 9-20-57

16" Casing - Set 33' 16" OD casing at 33'. Cemented with 50 sx regular cement, 2% calcium chloride added. Job complete 12:00 noon 9-20-57.

10" Casing - Ran 10 3/4" hh jts. OD 32.75" casing set @ 136h'. Cemented with 900 sx 2% Gel, 100 sx Tuff Plug with 2% Calcium Chloride, 150 sx regular cement on outside. Plug down @ 3:48 PM 9-24-57.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company THE CARTER OIL COMPANY

Address Box 1111

Durango, Colorado

COPY (ORIGINAL SIGNED) CHAS. C. JOHNSON

By Charles C. Johnson

Title Chief District Clerk

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17		

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency

Navajo

Allottee

Lease No. 14-20-603-263

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		Completion Report	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

December 19, 1957, 19

Navajo Tract 114
Well No. 8 is located 660 ft. from ~~S~~^N line and 1980 ft. from ~~W~~^E line of sec. 17
NW NE Section 17 41S 25E S1M
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
McElmo Creek San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4652 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

TD 5620', PBTD 5600' - Perforated with 4 jet shots per foot 5419-5466, 5489-5519, 5537-5573'. Acidized with total of 16,000 gallons 15% regular acid and 97.5 bbls flush oil. Recovered load oil and acid water, flowed on 6 hr test through 1/2" choke at the rate of 860 bbls oil and no water per day, GOR 600 cuft/bbl, tubing pressure 225 psi, gravity 40.6 at 60°. "B" Zone of Paradox formation.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 444

Durango, Colorado

By COPY (ORIGINAL SIGNED) B M BRADLEY

Title District Superintendent

Section 17

LOCATE WELL CORRECTLY

STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

State Capitol Building
Salt Lake City 14, Utah

To be kept Confidential until _____
(Not to exceed 4 months after filing date)

LOG OF OIL OR GAS WELL

Operating Company THE CARTER OIL COMPANY Address P. O. Box 3082, Durango, Colorado
Lease or Tract: Navajo Tract 111 Field McElmo Creek State Utah
Well No. 8 Sec. 17 T. 11S R. 25E Meridian SLM County San Juan
Location 660 ft. XXX of N Line and 1980 ft. EX of E Line of Section 17 Elevation 4652 DF
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

B. M. Bradley
B. M. Bradley
Title Dist. Supt.

Date March 26, 1958.

The summary on this page is for the condition of the well at above date.

Commenced drilling September 20, 1957 Finished drilling November 16, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5419 to 5573 No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 659 to 800 No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
16"	65	8	H-40	33	None	None	-	-	-
10-3/16"	32.75	8	H-40	1348	Baker	None	-	-	-
7"	20 & 23	8	J-55	5678	Howco	None	5573	5537	Production
							5519	5489	"
							5466	5419	"

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
16"	33	50	Halliburton	-	-
10-3/16"	1364	1150	"	-	-
7"	5620	400	"	-	-

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

Site	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from **Surface** _____ feet to **5620** _____ feet, and from _____ feet to _____ feetCable tools were used from **None** _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

March 26, _____, 19 **58** _____ **Flowing** Put to producing **on test: November 16,** 19 **57**The production for the first 24 hours was **860** barrels of fluid of which **100** % was oil; _____ % emulsion; _____ % water; and _____ % sediment. **on 1/2" Choke.** Gravity, °Bé. **40.6° API**

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____ **GOR - 600:1**

EMPLOYEES

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	659	659	MORRISON: Soft Clay & Sandstone.
659	1294	635	NAVAJO: Sandstone.
1294	2464	1170	CHINLE: Siltstone & Shale.
2464	2504	40	CUTLER: Shale with traces of limestone.
2504	2680	176	DE CHELLY: Soft sandstone.
2680	4030	1350	ORGAN ROCK: Siltstone & sand.
4030	4436	406	RICO: Siltstone & shale.
4436	5403	967	HERMOSA: Limestone & shale.
5403	5620	217	PARADOX: Limestone underlain by black shale and anhydrite.
O V E R			

[OVER]

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or hauling.

Spudded 9-20-57. Drilled 18" hole to 33'. Set 33' of 16", 65#, H-40 casing at 33' with 50 sacks cement. Drilled 15" hole to 1365'. Set 1348' of 10-3/4", 32.75#, H-40, casing at 1364' with 1150 sacks cement. Drilled 9" hole to TD of 5620'. Set 5678' of 7", 20# & 23#, J-55 casing at 5620' with 400 sacks cement. Perforated 5573-5537; 5519-5489 & 5466-5419' with 4 shots per foot. Acidized with 4000 gallons regular 15% acid; then with 5500 gallons regular 15% acid and then with 6500 gallons 15% acid. Recovered load oil & acid water & flowed to clean up well. Then flow tested well on 1/2" choke at rate of 860 barrels of oil & no water per day. Gravity of oil 40.6° API.

CORES: Cut 4 cores, see attached descriptions.

DRILL STEM TESTS: Two taken, see attached summary.

DRILL STEM TEST REPORT

POOL OR UNIT McElmo Creek Pool		COUNTY AND STATE San Juan, Utah	
WELL NO. Navajo Tract 111 #8		LOCATION NW NE Section 17-11S-25E	
REASON FOR TEST			
FORMATION TESTED Paradox			
D. S. T. NO. 2	DATE 10-24-58	SERVICE CO. Halliburton	
TOTAL DEPTH	5597'	HOLE SIZE	9"
TESTED INTERVAL	5544-5597'	WATER CUSHION	None
TOTAL TIME OPEN	2 hrs.	PACKERS @	5537-44'
INITIAL FLOW PRESSURE	16	TIME OPENED	
FINAL FLOW PRESSURE	50	TIME CLOSED	
SHUT-IN PRESSURE	Initial - 225 Final - 240	SHUT-IN TIME	Initial - 20 mins. Final - 30 mins.
HYDROSTATIC MUD PRESSURE	3035	CHOKES BH 1"	TH 1"

RECOVERY: **40' of drilling fluid.**

GENERAL DISCUSSION:

Opened tool with a fair blow during test. (slid packer 3' to bottom)

TEST WITNESSED
AND REPORTED BY:

DRILL STEM TEST REPORT

POOL OR UNIT		COUNTY AND STATE	
McElmo Creek Pool		San Juan, Utah	
WELL NO.		LOCATION	
Navajo Tract 111, #8		NW NE Section 17-11S-25E	
REASON FOR TEST			
FORMATION TESTED			
Paradox			
D. S. T. NO.	DATE	SERVICE CO.	
1	10-19-57	Halliburton	
TOTAL DEPTH	5495'	HOLE SIZE	9"
TESTED INTERVAL	5415-5495'	WATER CUSHION	None
TOTAL TIME OPEN	2 hrs. 20 mins.	PACKERS @	5415'
INITIAL FLOW PRESSURE	200	TIME OPENED	
FINAL FLOW PRESSURE	520	TIME CLOSED	
SHUT-IN PRESSURE	Initial - 2160 Final - 1835	SHUT-IN TIME	Initial - 20 min. Final - 30 Min.
HYDROSTATIC MUD PRESSURE	3055	CHOKES BH	5/8" TH 1"
RECOVERY: 2685' of clean oil. (Gas to surface in 5 minutes.)			
GENERAL DISCUSSION:			

TEST WITNESSED
AND REPORTED BY:

CAR-PRQ-1638
CORE DESCRIPTION

CORE NO.	POOL OR UNIT
1	McElmo Creek Pool
DEPTH	WELL AND NO.
5395 to 5445	Navajo Tract 114 #8
RECOVERY	LOCATION
50'	NW NE 17-416-25E
FORMATION	COUNTY
	San Juan
DATE	STATE
	Utah

5395-5401: Limestone, elastic matrix, dense to very fine crystalline, brownish gray, slightly dolomitic, very spotty bleeding of salt water and oil, tight, slight oil odor.

5401-08½: Shale, top Paradox, black, fissil, calcareous.

5408½-11: Limestone, elastic matrix and skeletal with matrix, dense to very fine crystalline, brownish gray, slight bleeding of salt water & oil, tight.

5411-14: Dolomite, very fine to medium crystalline, possible intercrystalline porosity, brownish gray.

5414-15: Dolomite as above with some scattered medium sized vugs.

5415-18: Dolomite as above with some intercrystalline porosity & scattered sub-vertical fractures.

5418-27½: Dolomite, fine crystalline with intercrystalline to pinpoint and medium sized vugular porosity, good oil odor & bleeding salt water & oil. Sub-vertical to vertical and some horizontal fractures scattered thru-out.

5427½-33: Dolomite as above, dense to very fine crystalline, no visible porosity, scattered sub-vertical & horizontal fractures with spotty bleeding of salt water & oil.

5433-35: Dolomite as above, with some pinpoint & very small vugular porosity, very fossiliferous, scattered sub-vertical to vertical & horizontal fractures, bleeding oil at scattered intervals, no water noted.

5435-38: Dolomite as above with intercrystalline & pinpoint porosity, with scattered horizontal & sub-vertical fractures, no visible bleeding, very foss.

5438-40: Dolomite as above, bleeding oil.

5440-42: Dolomite as above, with intercrystalline & pinpoint & small vugular porosity, fossiliferous, bleeding oil.

5442-43: Dolomite as above, some intercrystalline & scattered pinpoint porosity, sub-vertical fractures, fossiliferous, scattered oil bleeding.

5443-45: Dolomite as above, some scattered intercrystalline porosity, sub-vertical fractures, spotty oil bleeding.

CORE HEAD TYPE & SIZE

DESCRIBED BY

CAR-PRQ-1638
CORE DESCRIPTION

CORE NO.		POOL OR UNIT	
DEPTH	2	WELL AND NO.	McKlao Creek Pool
RECOVERY	5445-5495	LOCATION	Navajo Tract 114 #8
FORMATION	50'	COUNTY	McKee Section 17-41S-25E
DATE		STATE	San Juan
			Utah

5445-51: Limestone, clastic matrix, very fine to finely crystalline, intercrystalline & pinpoint porosity, tan, spotty bleeding of oil on core.

5451-52: Limestone as above, with pinpoint & small vugs bleeding SW & oil.

5452-59: Limestone, skeletal with matrix, finely crystalline, good pinpoint & small vugular porosity, core bleeding oil, scattered sub-vertical to horizontal fractures.

5459-62: Limestone, clastic matrix to skeletal with matrix, finely crystalline with intercrystalline & pinpoint porosity, scattered small vugs, core bleeding oil, scattered sub-vertical to horizontal fractures.

5462-63: Limestone, skeletal with matrix, very fine to finely crystalline, intercrystalline to pinpoint and small vugular porosity, core bleeding oil, sub-vertical to horizontal fractures.

5463-67: Limestone, as above, core bleeding oil and salt water.

5467-69: Limestone, clastic matrix, very fine to finely crystalline, fairly tight, some intercrystalline porosity, scattered pinpoint & small vugs, core bleeding oil and salt water.

5469-70: Limestone as above, scattered pinpoint & small vugs, scattered oil bleeding, scattered sub-vertical & horizontal fractures.

5470-80: Limestone, skeletal with matrix, with minor clastic matrix, fairly tight with some intercrystalline porosity & scattered pinpoint & small vugs, bleeding oil at scattered intervals, scattered sub-vertical to horizontal fractures.

5480-84: Limestone, brecciated, possible collapse, with minor skeletal with matrix, very fine to finely crystalline, brownish gray, mostly tight, possible scattered intercrystalline porosity, scattered pinpoint & small vugs, with very spotty oil bleeding, scattered sub-vertical to horizontal fractures.

5484-89: Limestone, skeletal with matrix to skeletal with minor clastic matrix, crypto to finely crystalline, no visible porosity, very scattered pinpoint & small vugs, bleeding oil at scattered intervals, scattered sub-vertical to horizontal fractures.

5489-95: Limestone as above, dense to finely crystalline, intercrystalline & pinpoint porosity, with scattered small vugs, bleeding oil, scattered sub-vertical to horizontal fractures.

CORE HEAD TYPE & SIZE

DESCRIBED BY

CORE NO.	3	POOL OR UNIT	McElmo Creek Pool
DEPTH	5495-5514	WELL AND NO.	Navajo Tract 114 #8
RECOVERY	48 1/2'	LOCATION	NW NE Section 17-41S-25E
FORMATION		COUNTY	San Juan
DATE		STATE	Utah

5495-97 1/2: Limestone, skeletal with matrix, microcrystalline, crinoids & oolites, light gray, fractures with oil stain, bleeding oil & gas along fracs.

5497 1/2-98: Limestone, skeletal with matrix, foraminiferal, light gray, microcrystalline with pinpoint porosity & hairlike fractures, hairlike fractures filled with calcite, bleeding oil & gas.

5498-5500: Limestone, skeletal with matrix, coralline with occasional brachiopods, micrograined, light gray, bleeding oil from vugular porosity.

5500-02 1/2: Limestone as above, only with heavy black oil along hairline fractures (dead oil) small vugs, bleeding oil & gas.

5502 1/2-04 1/2: Limestone, oolitic to pelletoid, microcrystalline matrix, light gray to gray, small vugs, bleeding oil & gas.

5504 1/2-07: Limestone, dolomitic, matrix, microcrystalline, very fine grained, gray with even oil staining and pinpoint porosity.

5507-11: Limestone, skeletal with matrix, occasional brachiopods, microcrystalline, gray, some pinpoint & small vugular porosity, bleeding oil & gas.

5511-12 1/2: Limestone, matrix, microcrystalline, some fractures & vugs with spotty oil stain, spotty fluorescence.

5512 1/2-14: Limestone as above, small vugs, bleeding oil & gas.

5514-16: Limestone as above with dead oil along some fractures, small vuggy porosity, but no bleeding.

5516-18 1/2: Limestone as above but bleeding oil & gas.

5518 1/2-30: Limestone, matrix, microcrystalline, gray with large calcite crystals, spotty fluorescence & stain along vertical to sub-vertical fractures, no visible porosity except along fracture planes. (23-27 bleeding oil from thin hairlike fractures.

5530-31: Limestone, skeletal with matrix, occasional brachiopod, dark gray, microcrystalline to very fine crystalline, no visible porosity, spotty fluorescence, no cut.

5531-33: Limestone, skeletal with matrix, gray, crinoidal, some dark gray shale inclusions, spotty fluorescence & some small vugs.

5533-34: Limestone, matrix, microcrystalline, gray, occasional shale inclusion as above, some porosity along hairline fractures, locally bleeding oil.

5534-35: Limestone as above, with few small vugs, much calcite, no show except faint fluorescence along thin fractures.

5535-38 1/2: Limestone as above, no calcite, small vugs, hairline fractures, faint fluorescence along fractures.

CORE HEAD TYPE & SIZE

DESCRIBED BY

CAR-PRO-1638
CORE DESCRIPTION

CORE NO.	POOL OR UNIT
DEPTH	WELL AND NO.
RECOVERY	LOCATION
FORMATION	COUNTY
DATE	STATE

(cont)

5538 $\frac{1}{2}$ -40: Limestone as above, good vugular porosity, vugs oil stained.

5540-41: Limestone, matrix, microcrystalline, dark gray, fractured, stained with oil, spotty fluorescence, trace pinpoint porosity.

5541-42 $\frac{1}{2}$: Limestone, skeletal with matrix, occasional brachiopods, microcrystalline, hairlike fractures with spotty fluorescence & stain & some small vugs.

5542 $\frac{1}{2}$ -43 $\frac{1}{2}$: Limestone as above, no vugs, fluorescence along fractures, bleeding some oil.

CORE HEAD TYPE & SIZE

DESCRIBED BY

CORE NO.		POOL OR UNIT	
DEPTH	4	WELL AND NO.	McElmo Creek Pool
RECOVERY	5544-5597		Navajo Tract 114 #8
FORMATION	53'	LOCATION	NW NE Section 17-41S-25E
DATE		COUNTY	San Juan
		STATE	Utah

5544-45: Limestone, matrix, micro-grained, gray to dark gray, hairline fractures, healed with calcite, spotty stain & fluorescence, bleeding gas & water.

5545-46: Limestone as above only with sparry calcite crystals & dark shale inclusions & shaley material along some fractures.

5546-47: Limestone, skeletal with matrix, gray to tan, micro-grained, to fine grained, brachiopods, no visible porosity except in scattered small vugs, good to spotty stain & fluorescence, good cut.

5547-48: Limestone, lump with matrix, (lumps dark gray, micro-grained) (matrix, tan, fine grained) no visible porosity, no show, except in scattered small vugs.

5548-49: Limestone, skeletal with matrix, micro-grained, dark gray (brachiopods) scattered small vugs with spotty stain & fluorescence.

5549-51: Limestone, matrix, micro-grained, dark gray to tan, spotty flour.

5551-52: Dolomite, gray, fine grained, with black shale inclusions, no visible porosity, dull yellow fluorescence, very faint cut, trace of pyrite.

5552-53: Dolomite, very fine grained, brownish gray, pale yellowish fluorescence, very slight cut, no visible porosity.

5553-55: Limestone, skeletal with matrix, (brachiopods) dark gray, micro-grained, no visible porosity, no show.

5555-55: Dolomite, skeletal with matrix, (fusulinids) dark gray, micro-grained, no visible porosity, no show.

5555-61: Dolomite, gray to brown, very fine grained, no visible por. no show

5561-62: Dolomite, as above, good even fluorescence & cut, some inter-crystalline porosity.

5562-64: Limestone, lump with matrix, (lumps dark gray, micro-grained) (matrix light tan, very fine grained) no show.

5564-66: Limestone, skeletal with matrix, tan, micro-grained, (brachiopods & corals) good fluorescence & cut.

5566-67: Dolomite, tan, micro-grained, some pinpoint porosity, good fluorescence & cut.

5567-68: Dolomite, as above, only with some brachiopods.

5568-69: Limestone, matrix, dolomitic, micro to very fine grained, tan, no visible porosity, good fluorescence and cut.

See sheet 2

CORE HEAD TYPE & SIZE

DESCRIBED BY

CORE NO.	4 (cont)	POOL OR UNIT
DEPTH		WELL AND NO.
RECOVERY		Navajo Tract 114 #8
FORMATION		LOCATION
DATE		COUNTY
		STATE

(cont)

- 5569-72½: Dolomite, tan micro-grained, (probably intercrystalline porosity) good fluorescence odor & cut, pinpoint porosity at 70-71½.
- 5572½-74½: Limestone, skeletal with matrix, micro-grained, gray brown, abundant brachiopods, no visible porosity, no show.
- 5574½-75½: Limestone, matrix, micro-grained, dark gray brown, spotty flour.
- 5575½-76½: Limestone, skeletal with matrix, micro-grained, dark gray, brown, no show, no visible porosity.
- 5576½-78: Limestone, dolomitic, matrix, micro-grained, dark gray, brown, no show.
- 5578-79: Limestone, skeletal with matrix, micro-grained, (brachiopods) some pyrite, very argillaceous, very spotty fluorescence.
- 5579-97: Shale, black, slightly calcareous, very hard.

CORE HEAD TYPE & SIZE

DESCRIBED BY

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____
Window Rock
Allottee Navajo
Lease No. 14-20-603-263

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	<u>Supplementary Report of Conversion to Injection Well</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Humble Oil

September 6, 19 62

McElmo Creek Unit

Well No. 97-21 is located 660 ft. from [N] line and 1980 ft. from [E] line of sec. 17

NW NE Section 17 41S 25E SL&M
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Greater Anath San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of surface above sea level is 4653 ft. K.B.

DETAILS OF WORK

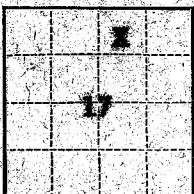
(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

August 17, 1962: Set Baker Model 'H' Packer @ 5398' on 2 1/2" cement lined tubing. Attempted to fill annulus with crude.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company THE SUPERIOR OIL COMPANY
Address P. O. DRAWER 'G'
CORTUZ, COLORADO
Original Signed By D. D. KINGMAN
By D. D. Kingman
Title Prod. Engineer

Copy H. L. C.
(SUBMIT IN TRIPLICATE)



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Window Rock
Allottee Navajo
Lease No. 14-29-603-262

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Humble

October 4, 1962

McElmo Creek Unit
Well No. FP-21 is located 660 ft. from N line and 1980 ft. from E line of sec. 17

NW NE Section 17
(1/4 Sec. and Sec. No.)

41S 25E
(Twp.) (Range)

SLB&M
(Meridian)

Greater Aneth
(Field)

San Juan
(County or Subdivision)

Utah
(State or Territory)

The elevation of ~~the derrick floor~~ above sea level is 4653 ft. K. B.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

9-21-62: Flled pressure off tubing and casing, well flowed back through casing to recover 170 bbl. from annulus.

Ran McCullough Tool Casing Inspection Log to 5394' - no indication of casing corrosion.

Ran Baker Model 'N' 7" packer to 5368' (30' above original packer) on 2 1/2" Hydril cement lined tubing. Filled annulus with crude and pressured casing to 500#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company THE SUPERIOR OIL COMPANY

Address P. O. DRAWER 'G'

CORTEZ, COLORADO

DBK/njh

Original Signed By
D. D. KINGMAN

By D. D. Kingman
Title Production Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIP
(Other instructions
verse side)Form approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Water Injection		5. LEASE DESIGNATION AND SERIAL NO. 14-20-602-262	
2. NAME OF OPERATOR THE SUPERIOR OIL COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
3. ADDRESS OF OPERATOR P. O. DRAWER 'G', CORTEZ, COLORADO		7. UNIT AGREEMENT NAME McElmo Creek	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW NE SEC. 17, T41S, R25E SAN JUAN COUNTY, UTAH		8. FARM OR LEASE NAME	
14. PERMIT NO.		9. WELL NO. #P-21	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4653' KB		10. FIELD AND POOL, OR WILDCAT McElmo Creek	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 17, T41S, R25E	
		12. COUNTY OR PARISH San Juan	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐~~ABANDONMENT~~ ACIDIZING ☒(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

9-22-65 Acidize all perfs with 21,000 gals 28% iron acid in 3 equal stages using 2500 gallon salt plugs between stages. All fluid injected at 9.6 BPM.

9-23-65 Job complete. Hooked well to injection. Injected 2320 bbls in 18 hrs.

9-25-65 2715 bbls in 24 hrs. - 1.8 BPM @ 2125 psi

9-26-65 2533 bbls in 24 hrs. - 1.6 BPM @ 2125 psi

9-27-65 2440 bbls in 24 hrs. - 1.65 BPM @ 2150 psi

18. I hereby certify that the foregoing is true and correct

SIGNED

D. D. Kingman

TITLE

Production Engineer

DATE

12-3-65

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

MJE/njh

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TWO COPIES
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> Water Injection Well		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-262
2. NAME OF OPERATOR The Superior Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P. O. Drawer 'G', Cortez, Colorado 81321		7. UNIT AGREEMENT NAME McElmo Creek Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 660' FNL and 1980' FEL, Sec. 17, T41S, R25E		8. FARM OR LEASE NAME McElmo Creek Unit
14. PERMIT NO.		9. WELL NO. MCU #P-21
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4653' KB		10. FIELD AND POOL, OR WILDCAT McElmo Creek Field
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW NE Sec. 17 T41S, R25E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input checked="" type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Notice of intent to perforate the Ismay Zone 5360-5376' for oil production.

This well will continue in service as a Desert Creek injector and therefore will be completed for dual service.

18. I hereby certify that the foregoing is true and correct

SIGNED D. D. Kingman
D. D. Kingman

TITLE District Engineer

DATE 1/3/69

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-262

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

McElmo Creek Unit

8. FARM OR LEASE NAME

McElmo Creek Unit

9. WELL NO.

MCU #P-21

10. FIELD AND POOL, OR WILDCAT

McElmo Creek Field

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

NW NE Sec. 17, T41S, R25E

12. COUNTY OR PARISH

San Juan Co.

13. STATE

Utah

1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ Water Injection Well

2. NAME OF OPERATOR

The Superior Oil Company

3. ADDRESS OF OPERATOR

P. O. Drawer 'G', Cortez, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

660 FNL & 1980' FEL, Section 17, T41S, R25E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4653' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☒

(Other) Dual Completion, Prod/Inj

REPAIRING WELL ☐ALTERING CASING ☒ABANDONMENT* ☐(NOTE: Report results of multiple completion or Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1/19/69 to 1/22/69 Milled out permanent packer at 5368'. Pushed permanent packer at 5396' to bottom.

1/24/69 Perf'd Ismay interval 5360-76' with 2 jets per foot. Treated perforations 5360-76 with 1000 gallons 28% acid, pumped at 4 BPM. 0 psi.

1/25/69 14 hr. SIP 250#. Swabbed 143 bbls fluid in 6 hrs. Flowed 6 hrs, open choke, 220 psi. Dead at 9:00 p.m. 90 to 100% water cut.

1/28/69 Set packer at 5404', dual string anchor at 5368'.

1/29/69 Ran pump and rods. Tied Ismay into flow line. Tied Desert Creek injection string into injection line.

2/4/69 Tested 326 BOPD, 8 BW, 635 GOR.

2/12/69 Tested 511 BOPD, 0 BW, 1055 GOR.

18. I hereby certify that the foregoing is true and correct

SIGNED

D. D. Kingman

TITLE District Engineer

DATE 3/17/69

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THE MANNER
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-1424

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-263

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

McElmo Creek Unit

8. FARM OR LEASE NAME

McElmo Creek Unit

9. WELL NO.

MCU #M-21

10. FIELD AND POOL, OR WILDCAT

McElmo Creek Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 17, T41S, R25E

12. COUNTY OR PARISH

13. STATE

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4552' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

PULL OR ALTER CASING

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Converted Ismay to Injection

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

2-28-75: Converted Ismay from producing Zone to injection zone as outlined in our "Notice of Intention to Change Plans" dated October 30, 1974.

Ismay Injection Rate: 2000 BPD at 0 PSI

Desert Creek Injection Rate: 663 BPD at 2450 PSI

18. I hereby certify that the foregoing is true and correct

SIGNED

[Signature]

TITLE

District Engineer

DATE

3-24-75

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

cc: USGS (4)

State (2)

Franques, Mosley, Hurlbut, File, WIO

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ gas ☐ other ☐
well well2. NAME OF OPERATOR
SUPERIOR OIL COMPANY3. ADDRESS OF OPERATOR
P. O. DRAWER "G", CORTEZ, COLORADO 813214. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FNL, 1980' FEL of Sec. 17
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

SUBSEQUENT REPORT OF:

(other) Convert to water injection

5. LEASE
14-20-603-263
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO
7. UNIT AGREEMENT NAME
McELMO CREEK UNIT
8. FARM OR LEASE NAME
9. WELL NO.
#P-21
10. FIELD OR WILDCAT NAME
ANETH
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC. 17, T4S, R2SE
12. COUNTY OR PARISH
SAN JUAN
13. STATE
UTAH
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
DF: 4652'

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

NOTE: In 1969 the subject well was converted to a dual string production-injection well, producing from the Lower Ismay and injecting into the Desert Creek. During an M & R workover in April, 1981, a tubing leak was discovered in the injection string. The dual string was then pulled and a single string was run. A retrieval bridge plug was set at 5401' between the Ismay and Desert Creek. On 10-23-81, the Ismay made 6 BOPD and 207 BWPD. It is proposed that the RBP be removed and the well be placed on injection into the Ismay and Desert Creek as per attached procedure.

Orig + 5 - USGS, State - 2, Navajo Tribe, Reg. Group, Files

Subsurface Safety Valve: Manu. and Type _____

18. I hereby certify that the foregoing is true and correct

SIGNED T. GREG HERRIONTITLE Petroleum Engineer DATE January 11, 1981

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS AND MININGDATE: 1/27/82BY: [Signature]

*See Instructions on Reverse Side

The following is NTL-2B information for subsurface water injection in connection with secondary recovery operations.

1. McElmo Creek Unit #P-21
660' FNL, 1980' FEL'
NWNE Section 17, T41S, R25E
2. The following is a water analysis of the water to be injected into the subject well:

Specific gravity: 1.04
Sulfates: 800-1200 ppm
Chlorides: 30,000-40,000 ppm
Total dissolved solids: 50,000-70,000 ppm
PH: 6.5-7.0
3. Proposed injection zone: 5360-94' O/A (L. Ismay).
4. The following is a water analysis of the water in the injection interval:

Specific gravity: 1.04
Sulfates: 800-12-- ppm
Chlorides: 30,000-40,000 ppm.
Total Dissolved solids: 50,000-70,000 ppm.
PH: 6.5-7.0
5. All water produced from the Ismay and Desert Creek (5500'+) is piped to the injection plant, filtered, and pumped back into the injection wells.
- 6 & 7. See attached well sketch.
8. See attached procedure.
9. Injection profiles are run annually. If the subject well has to be shut-in, there are still 77 other injection wells in the unit to inject water into.

McELMO CREEK UNIT #P-21
GREATER ANETH FIELD
SAN JUAN COUNTY, UTAH

RECOMMENDED PROCEDURE

OBJECTIVE: To convert MCU #P-21 from a Lower Ismay producer to a Lower Ismay, Desert Creek I, II & III injection well.

1. MIRU workover rig. NU and test BOP's.
2. Kill well by circulating with heavy salt water (from Rockwell Springs).
3. Release anchor-catcher & retrieve RBP (at 5401'±). POH w/ RBP, retrieving head, anchor-catcher, seating nipple and 2-7/8" tubing.
4. MIRU Gearhart wireline unit and 3000 psig lubricator. RIH w/ 4" dual-fire casing gun and perforate the Lower Ismay and Desert Creek I as follows:

SCHLUMBERGER GR-N (10-26-57)

1st Shot: 5477-84' (2 JSPF)
2nd Shot: 5376-84', 5391-94' (2 JSPF)

Casing collars at 5430', 5463'±, 5495', 5527'±, 5559'.

POH w/ casing gun. RDMO Gearhart.

5. RIH w/ 'R-3' double grip packer on 2-7/8" workstring. Hang packer at 5573'.
6. MIRU Dowell acidizing unit. Acidize the Lower Ismay and Desert Creek perfs (5360-5570' O/A) w/ 10,000 gals (238 bbls) 28% HCL + 4 GPT corrosion inhibitor + 4 GPT NE agent + 4 GPT F-78 surfactant + 15 GPT U-42 iron sequestering agent + 1000 lbs rock salt + 1000 lbs benzoic acid flakes as follows:
 - a. Spot acid across perfs by displacing 10 bbls acid w/ 29 bbls LSW. PU packer and set at 5300'. Establish injection rate.
 - b. Pump 48 bbls acid.
 - c. Pump 250 gal (6 bbls) WF-20 + 1 ppg rock salt + 1 ppg benzoic acid.
 - d. Pump 45 bbls acid.
 - e. Repeat step "c" and "d" 3 more times.
 - f. Flush acid w/ 45 bbls LSW.

MAXIMUM SURFACE PRESSURE: 3500 psig.

RECOMMENDED RATE: 6-8 BPM.

7. Flow or swab back load fluids immediately.
8. Kill well with heavy salt water if necessary. POH w/ 'R-3' packer and 2-7/8" workstring.

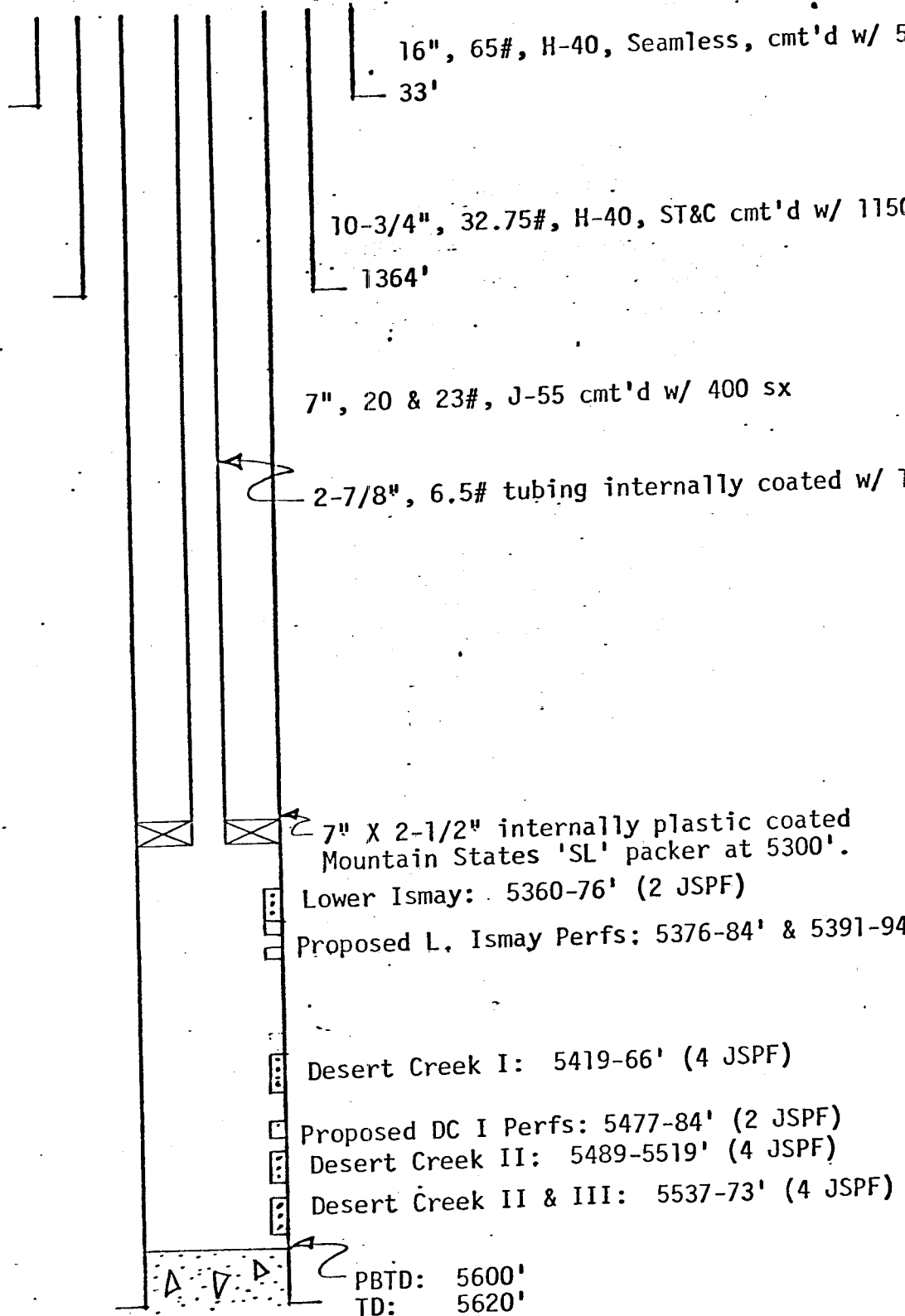
9. RIH w/ internally plastic coated 7" X 2-1/2" Mountain States 'SL' packer and 2-7/8", 6.5# tubing internally coated w/ TK-75. Hang packer at 5300'.
10. Pump 213 bbls inhibited water down 7" - 2-7/8" annulus with tubing open. Se
11. Put well on injection. Run tracer survey at earliest possible date.

Approved:

Date:

TGM/Th

PROPOSED WELLBORE SKETCH



SUNDRY NOTICES AND REPORTS ON WELLS

1. oil well ☒ gas well ☐ other ☐

2. NAME OF OPERATOR
SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR
P.O. DRAWER "G", CORTEZ, COLORADO 81321

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

below.)
AT SURFACE: 660' FNL, 1980' FEL OF SEC. 17
AT TOP PROD. INTERVAL: SAME
AT TOTAL DEPTH: SAME

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,
REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

ABANDON* CONVERT TO INJECTION
(other)

SUBSEQUENT REPORT OF:

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

JUL 19 1982

DIVISION OF GAS & MINING

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

6-21-82: MIRU. Killed well. POOH w/tubing, seating nipple, tubing anchor, retrieving head, and bridge plug. (b)(7)(C), (b)(7)(D)

6-22-82: Perf'd @ 5477-84' (2 JSPF) & 5376-84', 5391-94' (2 JSPF) Acidized
Lower Ismay & D.C. Zone I, II, & III w/10,000 gal 28% HCl.

6-23-82: Swabbed

6-24-82: RIH w/plastic coated tbg. & pkr. Set pkr. @ 5300'. RDMO

Subsurface Safety Valve: Manu. and Type

18. I hereby certify that the foregoing is true and correct

SIGNED

~~T: GREG MERRION~~

TITLE Petroleum Engineer DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

***See Instructions on Reverse Side**

THE SUPERIOR OIL COMPANY 36.55075%
Injection well - Area #4

McELMO CREEK UNIT #P-21
660' FNL, 1980' FEL
NW NE Sec. 17, T41S, R25E
San Juan County, Utah

FIELD: GREATER ANETH

KB: 4653' DF: 4652' GL: 4643' TD: 5620' PBTD: 5600' TLD: 10.00'
TOC: 3970' (temp)
SPUDDED: 9-20-57 COMPLETED: 11-16-57

INJECTION ZONE: Ismay, Desert Creek Zones I, II & III

PERFS: Ismay - 5360-76' (2 jets/ft)
Zone I - 5419-66' (4 jets/ft)
Zone II - 5489-5519' (4 jets/ft)
Zone II & III - 5537-73' (4 jets/ft)

CASING: 16" 65#, H-40 Smls w/ 50 sx 1 jt 33'
10-3/4" 32.75# H-40 w/ 1150 sx 44 jts 1364'
7" 20 & 23# J-55 w/ 400 sx 174 jts 5620'

TUBING: 174 jts 2-7/8" EUE Nu-Lock 6.5#, J-55 w/ TK-75 lining.
1 landing jt 2-7/8" EUE, 8R thd, 6.5# total 175 joints -5285'

PACKERS: 7" Mt States Mod S-L Lok-set w/ plastic lining set at 5285'.

PUMP'G EQUIP: None.

REMARKS: The seating nipple is at 5342'. Tbg/anc is at 5343' & BP at 5401'.

WELLHEAD: National DP-7

11-57 Perf'd 5419-66', 5489-5519', 5537-73', treated individually w/ reg 15% acid.
8-17-62 Converted to water injection.
9-22-65 Stimulated w/ 21,000 gals 28% iron acid. Final press 4000#. ISIP 2350#.
1-24-69 Perf'd 5360-76', acidized w/ 1000 gals 28% acid. Displaced w/ 0# pressure. Converted to dual string-production injection.
11-25-78 C/O seating nipple and stinger on production string.
10-20-80 Abandon pumping from Ismay zone. Well still being injected in D. C. formation.
5-15-81 Bridge plug is set between Ismay and D. C. formations. Well is flowing on its own.
6/21-24/82 Converted to injection - all zones, Ismay, D.C. I,II,III. Dowell acidized all zones w/ 10,000 gals 28% MSR, HCL acid in 5 stages w/ four TDA plugs of Benzoic acid, 5000# rocksalt, 50# cold water gel, avg inj rate - 5.17 BPM; avg PSI 1150#. ISDP - 1100#; 15 min SDP - 800#.

INITIAL WELL TEST

McELMO CREEK UNIT #P-21

DATE November 16, 1957

OIL BBL/DAY 860

OIL GRAVITY 40.6

GAS CU.FT/DAY 516,000 CF

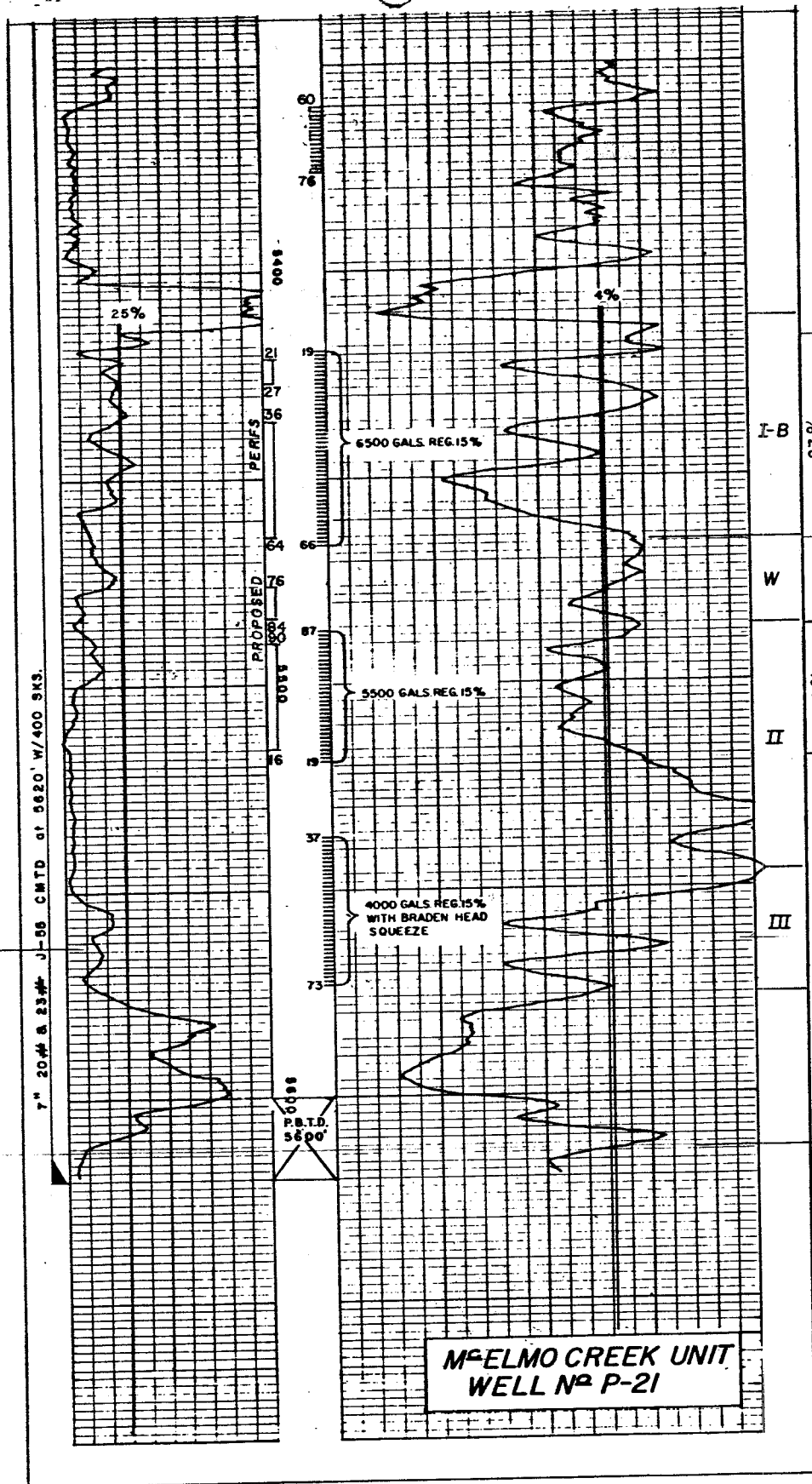
GAS-OIL RATIO CU/FT/BBL 600 est

WATER BBL/DAY 0

PUMPING/FLOWING F

CHOKE SIZE 1/2

FLOW TUBING PRESSURE 225



9-22-65 TREATED ALL PERFS WITH 21,000 GAL. 28% ACID IN THREE EQUAL STAGES USING TWO 500 GAL. SALT PLUGS.

1-24-69. Perfed 5360-76'. Treated same W/1000 gals 28 % acid, Set pkr. at 5404' Dual string anchor at 5368'

10-20-80: Temp. Abandoned

5-15-81- BP set between Ismay and DC formations.

6-24-82: Converted to injection-all zones, ismay, D.C. 123 acidized all zns. w/10,000 gal. 28% HCL, 5 stages

4.5613

McELMO CREEK UNIT
THE SUPERIOR OIL CO. OPERATOR
NW NE SEC.17, T41S, R25E.
SAN JUAN COUNTY, UTAH.
ELEV. 4653' K.B. T.D. 5620'

REV: 3-19-69

PROD. & W I
Well No. P-21

McElmo Creek Unit

ATTACHMENT I

RULE I-5: Application for Approval of Class II Injection Wells

(a) Well Data Sheets.

- (b) (1) Plat #1.
(2) Well Data Sheets.
(3) Well Data Sheets & Logs.
(4)

i. The average intervening thickness is 4000' between the existing injection interval and the deepest fresh water sand.

ii. Maximum Surface Pressure: 2800 psig.
Maximum Rate: 4000 BWPd.

<u>FORMATION</u>	<u>DEPTH</u>	<u>LITHOLOGY</u>
Chinle	1300' avg.	Shale
DeChelly	2350' avg.	Sandstone
Organ Rock	2600' avg.	Shale
Hermosa	4400' avg.	Limestone
Upper Ismay	5300' avg.	Limestone
Lower Ismay	5370' avg.	Limestone
Gothic	5450' avg.	Shale
Desert Creek	5460' avg.	Limestone
Chimney Rock	5550' avg.	Shale

(5)

(i) A throttling valve is installed on the wellhead to control injection rates and pressures.

(ii) The source of injection water is Superior's production wells within the McElmo Creek Unit. The wells produce from the Ismay and Desert Creek formations with approximate depths of 5300' and 5460' respectively.

(iii) The analysis of injection water is as follows: (as parts per million).

PH: 6.5	Ca: 13770 ppm	SO4: 25 ppm
CL: 16700 ppm	Mg: 11421 ppm	H2S: 30 ppm
Fe: 3 ppm	HCO3: 109.8 ppm	Na: -
CaCO3: 18470 ppm	CO3: -	Specific Gravity: 1.0553

McElmo Creek Unit

(5) Cont.

(iv) The injection zones are the Ismay and Desert Creek formations. Both zones are carbonate formations consisting of limestone, anhydrite and dolomite. The formations extend throughout the Paradox Basin and are underlain by the Chimney Rock Shale and are overlain by the Hermosa Limestone.

(v) Fresh water zones (Morrison, Bluff, Entrada) range from 0 to 1300' with Entrada being the deepest and somewhat saline.

(vi) The analysis of formation water (Desert Creek) is as follows: (as parts per million).

PH: 6.6	Ca: 17410 ppm	SO4: 33 ppm
CL: 34800 ppm	Mg: 11518 ppm	H2S: 10 ppm
Fe: 1.5 ppm	HCO3: 48.8 ppm	Ba: -
CaCO3: 22150 ppm	CO3: -	Specific Gravity: 1.0902

(6) To assure that injection is confined to intervals intended to receive the disposed water, wireline diagnostic surveys are run periodically to determine whether any escapement is taking place. If such information is discovered, the disposal well will be shut-in until proper measure can be taken. Casing pressure readings are made regularly to verify that no tubing or packer leaks have developed. If such leaks develop, the well will be shut-in until proper repairs can be made.

(7) N/A.

(8) The Division will be notified of the date and time to monitor the mechanical integrity test.

(9) N/A.

(10) N/A.

R24E

R25E

T
40
ST
41
S

- LEGEND**
- FUTURE LOCATION
 - DRILLING WELL (STATUS)
 - OIL WELL
 - ▽ WATER INJECTION WELL
 - ⊕ DUAL SERVICE, INJ/PROD

O/W CONTACT -960

0 2000' 4000'

McELMO CREEK UNIT

SUPERIOR OIL & GAS COMPANY

McELMO CREEK UNIT

SAN JUAN COUNTY, NEW MEXICO

SUPERIOR OIL & GAS COMPANY

BY: [Signature]

TOP OF [Signature]

DESERT CREEK LIMESTONE, NEW MEXICO

DATE 4-14-73

ZONE 2

DRAWING NO.

BY: [Signature] SCALE: [Signature]
 DATE: [Signature] C.I.: 25ft.
 CHECKED: [Signature] DRAWN BY: [Signature]

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Superior Well No. McElmo Creek Unit P21
 County: San Juan T 41S R 25E Sec. 17 API# 43-037-16369
 New Well ☐ Conversion ☐ Disposal Well ☐ Enhanced Recovery Well ☒

	YES	NO
UIC Forms Completed	<u>✓</u>	<u> </u>
Plat including Surface Owners, Leaseholders, and wells of available record	<u>✓</u>	<u> </u>
Schematic Diagram	<u>✓</u>	<u> </u>
Fracture Information	<u> </u>	<u>✓</u>
Pressure and Rate Control	<u>✓</u>	<u> </u>
Adequate Geologic Information	<u>✓</u>	<u> </u>
Fluid Source	<u>Desert Creek - Ismay</u>	

Analysis of Injection Fluid	Yes <u>✓</u>	No <u> </u>	TDS <u>60,000 +</u>
Analysis of Water in Formation to be injected into	Yes <u>✓</u>	No <u> </u>	TDS <u>70,000 +</u>

Known USDW in area Maryo-Chirale Depth 1300
 Number of wells in area of review 13 Prod. 9 P&A 1
 Water 0 Inj. 3

Aquifer Exemption Yes NA ✓

Mechanical Integrity Test Yes ✓ No

Date 10-21-84 Type Water Frac Survey

Comments: _____

Reviewed by: 

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBM. TRIPLICATE
(Other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-263

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

MCELMO CREEK

8. FARM OR LEASE NAME

9. WELL NO.

P-21

10. FIELD AND POOL, OR WILDCAT

GREATER ANETH

11. SEC., T., R., M., OR BLK. AND
SUBST. OR AREA

Sec 17, T41S, R25E

12. COUNTY OR PARISH

SAN JUAN

13. STATE

UTAH

1. ☐ OIL WELL ☐ GAS WELL ☐ OTHER INJECTION WELL

2. NAME OF OPERATOR
MOBIL OIL CORP AS AGENT OF SUPERIOR OIL

3. ADDRESS OF OPERATOR
P. O. DRAWER 'G', CORTEZ, CO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

660' FNL, 1980' FEL

16. PERMIT NO.

43-037-116369

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

DF: 4652'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐

PULL OR ALTER CASING

☐
☐
☐
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐
☐

REPAIRING WELL

☐
☐
☐
☒

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

CO2 INJECTION

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Carbon Dioxide injection was initiated in this well on Aug 2, 1985

18. I hereby certify that the foregoing is true and correct

SIGNED

D. C. Collins

TITLE Sr Staff Op Engr

DATE

1.9.86

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth
Associate Director

RECEIVED
MAY 16 1986

DIVISION OF
OIL, GAS & MINING

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,



R. D. Baker
Environmental Regulatory Manager

CNE/rd
CNE8661

WESTERN REGULATORY WELL COMPLIANCE DATA FILE (PAGE 1 OF 2)
 FOR THE CORTEZ SUPERVISOR AREA
 FOR THE GREATER ANETH FIELD 05/13/86

PROPERTY NAME	WELL NAME	COUNTY	STATE	SEC	TOWNSHIP	RNG	WELL TYPE	API NUMBER	FEDERAL LEASE NUMBER	STATE NUMBER	UNIT NUMBER
MC ELMO CREEK	N-11 ✓	SAN JUAN	UT	NW	SE	32-40S-25E	INJ	OP 43-037-15965	14-20-603-372		96-004190
	N-13 ✓	SAN JUAN	UT	NW	NW	05-41S-25E	INJ	OP 43-037-15966	14-20-603-372		96-004190
	N-15 ✓	SAN JUAN	UT	SW	NW	05-41S-25E	INJ	OP 43-037-05671	14-20-603-372		96-004190
	N-17 ✓	SAN JUAN	UT	NW	NW	08-41S-25E	INJ	OP 43-037-05597	14-20-603-263		96-004190
	N-19 ✓	SAN JUAN	UT	NW	SW	08-41S-25E	INJ	OP 43-037-05540	14-20-603-263		96-004190
	N-21 ✓	SAN JUAN	UT	NW	NW	17-41S-25E	INJ	OP 43-037-05492	14-20-603-263		96-004190
	N-23 ✓	SAN JUAN	UT	NW	SW	17-41S-25E	INJ	OP 43-037-16364	14-20-603-263		96-004190
	O-12 ✓	SAN JUAN	UT	SE	SW	32-40S-25E	INJ	OP 43-037-16371	14-20-603-372		96-004190
	O-14 ✓	SAN JUAN	UT	SE	NW	05-41S-25E	INJ	OP 43-037-16365	14-20-603-372		96-004190
	O-16 ✓	SAN JUAN	UT	SE	SW	05-41S-25E	INJ	OP 43-037-15969	14-20-603-372		96-004190
	O-18 ✓	SAN JUAN	UT	SE	NW	08-41S-25E	INJ	OP 43-037-05585	14-20-603-263		96-004190
	P-07 ✓	SAN JUAN	UT	NW	SE	29-40S-25E	INJ	OP 43-037-05828	I-149-IND-8839-A		96-004190
	P-09 ✓	SAN JUAN	UT	NW	NE	32-40S-25E	INJ	OP 43-037-16367	14-20-603-372		96-004190
	P-11 ✓	SAN JUAN	UT	NW	SE	32-40S-25E	INJ	OP 43-037-15971	14-20-603-372		96-004190
	P-13 ✓	SAN JUAN	UT	NW	NE	05-41S-25E	INJ	OP 43-037-16368	14-20-603-372		96-004190
	P-15 ✓	SAN JUAN	UT	NW	SE	05-41S-25E	INJ	OP 43-037-16340	14-20-603-372		96-004190
	P-17 ✓	SAN JUAN	UT	NW	NE	08-41S-25E	INJ	OP 43-037-15976	14-20-603-263		96-004190
	P-19 ✓	SAN JUAN	UT	NW	SE	08-41S-25E	INJ	OP 43-037-05555	14-20-603-263		96-004190
	P-21 ✓	SAN JUAN	UT	NW	NE	17-41S-25E	INJ	OP 43-037-05487	14-20-603-263		96-004190
	P-23 ✓	SAN JUAN	UT	NW	SE	17-41S-25E	INJ	OP 43-037-16370	14-20-603-263		96-004190
	Q-12 ✓	SAN JUAN	UT	SE	SE	32-40S-25E	INJ	OP 43-037-05720	14-20-603-372		96-004190
	Q-14 ✓	SAN JUAN	UT	SE	NE	05-41S-25E	INJ	OP 43-037-15974	14-20-603-372		96-004190
	Q-16 ✓	SAN JUAN	UT	SE	SE	05-41S-25E	INJ	OP 43-037-15975	14-20-603-372		96-004190
	R-11 ✓	SAN JUAN	UT	NW	SW	33-40S-25E	INJ	SI 43-037-05741	14-20-603-2057		96-004190
	R-11A ✓	SAN JUAN	UT	NW	SW	33-40S-25E	INJ	OP 43-037-39179	14-20-603-2057		96-004190
	R-13 ✓	SAN JUAN	UT	NW	NW	04-41S-25E	INJ	OP 43-037-05709	14-20-603-2057		96-004190
	R-17 ✓	SAN JUAN	UT	NW	NW	09-41S-25E	INJ	OP 43-037-05602	14-20-603-359		96-004190
	R-19 ✓	SAN JUAN	UT	NW	SW	09-41S-25E	INJ	OP 43-037-05554	14-20-603-359		96-004190
	R-21 ✓	SAN JUAN	UT	NW	NW	16-41S-25E	INJ	OP 43-037-16374	14-20-603-359		96-004190
	R-23 ✓	SAN JUAN	UT	NW	SW	16-41S-25E	INJ	OP 43-037-15977	14-20-603-359		96-004190

CO₂ inj. 8/2/85

Converted 1962 ✓

UTAH DIVISION OF OIL, GAS AND MINING
CASING-BRADENHEAD TESTOPERATOR: MEPNAFIELD: Greater AnethLEASE: McElmo CreekWELL # P-21SEC. 17 TOWNSHIP 41S RANGE 25ESTATE FED. FEE DEPTH 5620 TYPE WELL INJW MAX. INJ. PRESS. 2800 PS
PBTD 5600 water Tracer Log 4/14/86 4000 BWPDTEST DATE 9/10/86

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>16"</u>	<u>33'</u>	<u>50s</u>	<u>-vacuum-</u>		
<u>INTERMEDIATE</u>	<u>10 3/4"</u>	<u>1364'</u>	<u>1150s</u>	<u>0</u>	<u>rate 704</u>	
<u>PRODUCTION</u>	<u>7"</u>	<u>5620'</u>	<u>400s</u>		<u>cum 4710</u>	

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>TUBING</u>	<u>2 7/8</u>	<u>5285</u>		<u>1850</u>		

Packer at 5285

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>TUBING</u>						

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>TUBING</u>						

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE

SUNDRY NOTICES AND REPORTS ON WELLS

Oil Well ☐ Gas Well ☐ Other ☒ INJECTION WELL

Name Of Operator
MOBIL OIL CORP.

Address Of Operator
P. O. DRAWER "B", CORTEZ, CO. 81321

Location Of Well

660' FHL, 1980' FEL

4. Permit No. ☐ 15. Elevation
☐ DF: 4652'

5. Lease Designation And Serial No
14-20-603-263
6. Indian, Allottee Tribe Name
NAVAJO
7. Unit Agreement Name
McELMO CREEK UNIT
8. Farm Or Lease Name
9. Well No.
P-21
10. Field And Pool, Or Wildcat
GREATER ANETH
11. Sec., T., R.,
SEC. 17, T41S, R25E
12. County
SAN JUAN
13. State
UTAH

6. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

Notice Of Intention To :

Subsequent Report Of :

Test Water Shut-off <input type="checkbox"/>	Pull Or Alter Casing <input type="checkbox"/>	Water Shut-off <input type="checkbox"/>	Repairing Well <input type="checkbox"/>
Fracture Treat <input type="checkbox"/>	Multiple Complete <input type="checkbox"/>	Fracture Treatment <input type="checkbox"/>	Altering Casing <input type="checkbox"/>
Shoot Or Acidize <input type="checkbox"/>	Abandon <input type="checkbox"/>	Shooting Or Acidizing <input type="checkbox"/>	Abandonment <input type="checkbox"/>
Repair Well <input type="checkbox"/>	Change Plans <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) INCREASE OF INJECTION PRESSURE <input checked="" type="checkbox"/>			

7. Describe Proposed Or Completed Operations

Mobil Oil Corporation requests that the maximum allowable injection pressure for the subject well be increased from 2500 psig to 3200 psig. The subject well is part of the McElmo Creek Unit enhanced recovery project and a higher maximum injection pressure is required for the injection of CO2. The fracture gradient of the Ismay and Desert Creek injection zones will not be exceeded.

RECEIVED
MAR 09 1987

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 3/22/87
BY: [Signature]

DIVISION OF
OIL, GAS & MINING

8. I hereby certify that the foregoing is true and correct

Signed M. C. Hamm Title Operations Engineer Date 3/3/87

Approved By _____ Title _____ Date _____

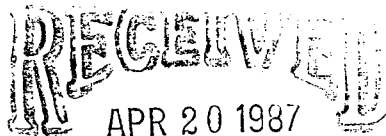
Conditions Of Approval If Any:

Mobil Oil Corporation

P.O. DRAWER 'G'
CORTEZ, COLORADO 81321

April 14, 1987

State of Utah Natural Resources
Division of Oil, Gas, & Mining
355 W. North Temple
3rd Triad Center, Suite 350
Salt Lake City, Ut. 84180-1203



Attn: Gil Hunt
UIC Program Manager

DIVISION OF
OIL, GAS & MINING

Dear Sir:

In reply to your 17 March 1987 letter concerning raising the maximum injection pressure on three McElmo Creek Unit wells, the following calculations are provided:

Fracture gradient = 1.1 psi/ft
Most shallow injection interval > 5000 ft

Using worst case assumptions:

density of CO₂ @ 5000 psi = 53 #/ft³
density of Water = 1.1 (62.4) = 68.64 #/ft³
∴ gradient of CO₂ = .3678 psi/ft
gradient of H₂O = .4763 psi/ft

Bottomhole fracture pressure = 5000' * 1.1 psi/ft = 5500 psi

Bottomhole pressure for CO₂ injected @ 3200 psi surface pressure

3200 psi + 5000' * .3678 psi/ft = 5039 psi

Bottomhole pressure for H₂O injected at 3000 psi (maximum system pressure, equipment limited)

3000 psi + 5000' * .4763 psi/ft = 5382 psi

Bottomhole pressure for the injection of CO₂ and H₂O will be less than the fracture gradient under the worst case assumptions of static column of fluid, no friction loss, and injection pressures at the system will be less than the fracture gradient under the worst case assumptions of static column of fluid, no friction loss, and injection pressures at the system maximum. In addition, all injection intervals are below 5000' which will give an additional factor of safety.

If you have questions concerning this matter, please contact M. C. Haun at 801/651-3676.

Sincerely,



T. M. Kuykendall
Oper. Engineering Supervisor

MCH/mlc
7.01.25

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other INJECTION WELL	5. Lease Designation and Serial No. 14-20-603-263
2. Name of Operator MOBIL PRODUCING TX & N.M. INC.	6. If Indian, Allottee or Tribe Name NAVAJO TRIBAL
3. Address and Telephone No. P.O. BOX 633 MIDLAND, TX 79702 (915) 688-2585	7. If Unit or CA, Agreement Designation McELMO CREEK
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660' FNL, 1980 FEL, SEC. ¹⁷8, T41S, R25E	8. Well Name and No. P-21
	9. API Well No. 43-037-16369
	10. Field and Pool, or Exploratory Area GREATER ANNETH
	11. County or Parish, State SAN JUAN, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other REPAIR	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

WELL IS SHUT IN FOR REPAIRS. WILL TEST FOR LEAKS, REPAIR, AND RETURN TO INJECTION.

RECEIVED

MAY 06 1991

**DIVISION OF
OIL GAS & MINING**

14. I hereby certify that the foregoing is true and correct		
Signed <u>Shirley Todd</u> SHIRLEY TODD	Title <u>Assistant Secretary</u>	Date <u>5-1-91</u>
(This space for Federal or State office use)		
Approved by _____	Title _____	Date _____
Conditions of approval, if any:		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

JUN 27 1991

DIVISION OF
OIL GAS & MINING

1. Type of Well

☐ Oil Well

☐ Gas Well

☒ Other

INJECTION WELL

2. Name of Operator

MOBIL OIL CORPORATION

3. Address and Telephone No.

P.O. BOX 633 MIDLAND, TX 79702

(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660 FNL, 1980 FEL SEC. 17, T41S, R25E

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

14-20-603-263

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

MCELMO CREEK

8. Well Name and No.

P-21

9. API Well No.

43-037-16369

10. Field and Pool, or Exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other REMEDIAL WORK

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

REPLACED TBG. & PKR. PKR. SET @5329. NO CSG. LEAK. RETURNED TO INJECTION.

14. I hereby certify that the foregoing is true and correct

Signed Shirley Todd SHIRLEY TODD

Title

Date 6-18-91

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other **INJECTION WELL**

2. Name of Operator
MOBIL OIL CORPORATION

3. Address and Telephone No.
P O BOX 633 MIDLAND TX 79702 (915)688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660' FNL 1980' FEL SEC.17, T41S, R25E

5. Lease Designation and Serial No.
14-20-603-263

6. If Indian, Allottee or Tribe Name
NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation
MCELMO CREEK UNIT

8. Well Name and No.
P-21

9. API Well No.
43-037-16369

10. Field and Pool, or Exploratory Area
GREATER ANETH

11. County or Parish, State
SAN JUAN, UT

12. **CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input checked="" type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)
SEE ATTACHED PROCEDURE

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
10/14/92
DATE: *Matthews*
BY:

RECEIVED

OCT 13 1992

**DIVISION OF
OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct

Signed *Shirley Todd* **SHIRLEY TODD**

Title **ENV. & REG. TECHNICIAN**

Date **10-6-92**

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

***See Instruction on Reverse Side**

PROPOSED WORKOVER PREOCEDURE
McELMO CREEK UNIT
P-21

- 1) MI steel workover pit (earth pit allowed but must be lined and netted if diamater is over 16"). MI 400 bbl tank and load w/ 10# brine water from Montezuma Water Service. Disconnect injection skid. MIRU DDPU.
- 2) MI Baker Oil Tools. Bleed pressure off annulus. Remove tbgs head bolts. Stab lifting sub into crown of tree. PU WH and close downhole shut-off valve (DHSV) and unlatch on/off tool (OOT). Load hole w/ 10# brine. Pressure test casing to 1000 psi for 30 minutes, 5% leakoff or less is acceptable. Bleed off pressure.
- 3) Latch OOT and open DHSV. If well not dead, obtain SIDPP. Contact Engineering for snubbing procedures.
- 4) MI premium tongs having heads/backups of 300+ degrees grip. POOH w/ Baker 7" packer + model B DHSV + HEL OOT + 173 jts 2-7/8" fluorolined tbgs. Stand tbgs back in derrick w/ thread protectors.
- 5) PU 2-7/8" workstring (W/S). RIH w/ 6-1/4" bit + 20# casing scraper + 181 jts W/S. Clean out to PBTD @ 5600' and circulate hole clean. POOH.
- 6) If casing failed to pressure test, PU and RIH w/ RBP and tension packer. Set RBP @ +/- 5320' and PKR @ +/- 4500'. Pressure test casing until leak is found and isolated. Establish rate and pressure through leak. POOH and leave well SI for 12 hrs. If casing did pressure test, continue w/ step #11.
- 7) Contact EPA to witness temperature logging. MI wireline. RU and run gamma-ray to get on depth. Run temp log from 200' below leak to surface or 1600' to surface, whichever is greater. Have wireline company draft open hole gamma ray onto final print of log. All temperature logging procedures should follow EPA guidelines that are attached to back of workover package. Fax temp log to San Fransisco EPA to obtain squeeze approval.
- 8) MI Halliburton to squeeze.

IF HIGH PRESSURE LEAK, SQUEEZE AS FOLLOWS:

- a) spot 3 drums sodium silicate across leak
- b) apply 1000 psi squeeze pressure
- c) reverse out sodium silicate
- d) pressure test casing to 1000 psi

IF RATE IS OBTAINABLE INTO LEAK, SQUEEZE AS FOLLOWS:

- a) set reatiner above leak
- b) mix 100 sx class G w/ fluid loss additives for 200-400 cc's
- c) establish rate
- d) squeeze through retainer, hesitate cement
- e) sting out of retainer and reverse out excess cement

Max squeeze pressure = 1500 psi.

- 9) POOH. RIH and drillout squeeze. Pressure test to 1000 psi. If squeeze holds, POOH. If no squeeze job, repeat squeeze procedures.
- 10) SI well for 12 hrs. Run 2nd temp log through same interval as before and using same guidelines. Wait and additional 12 hrs from 2nd log and run a 3rd temperature log as before. RD wireline.
- 11) RIH and retrieve RBP. POOH and lay down W/S.
- 12) RU premium tongs. PU and RIH w/ re-dressed equipment and 2-7/8" fluorolined tbg. Set packer @ +/- 5329' w/ -10k to neutral weight. Close DHSV and unlatch OOT. Pressure test to 1000 psi. If pressure holds, circulate fresh water w/ 2 drums Tretolite packer fluid. Latch OOT and open DHSV. ND BOP's, NU WH. NU injection skid, clean location. RDMO.
- 13) Contact EPA representative, Ken Lingo, Farmington N.M. to witness mechanical integrity test. Obtain chart of test and submit copy to Ernie Thomas, Cortez office. Fill out Utah Tax Credit form and submit to Tiny Higman, Cortez office. Turn well over to production.
- 14) Target injection rate is 340 bpd CO2.
Max injection pressure is 2815 psi.

T. Wayne McPherson

(303) 565-2207	office
(303) 565-0177	home
(303) 749-1143	mobile
(505) 327-8814	pager

ENGINEERS CALCULATION SHEET

CD-100 (1-81)

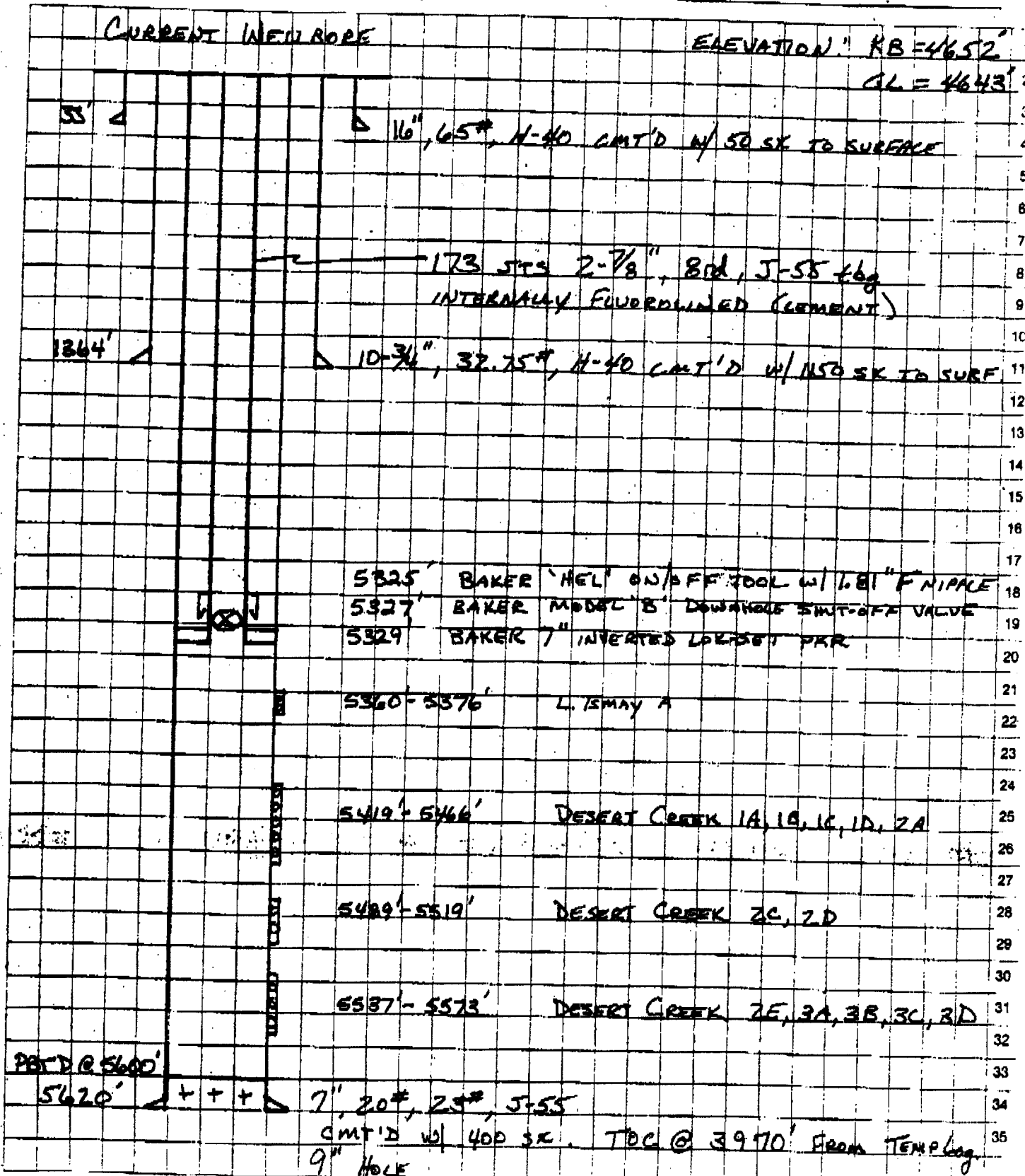
FOR MELIND CREEK UNIT P-21
 LOCATION NW/NE SEC 17, T41S, R25E
660' FNL, 1980' FEL
SAN JUAN COUNTY, UTAH

JOB OR AUTH. NO.

PAGE

DATE

BY



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other **INJECTION WELL**

2. Name of Operator

MOBIL OIL CORPORATION

3. Address and Telephone No.

P O BOX 633 MIDLAND, TX 79702

(915)688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FNL 1980' FEL SEC 17, T41S, R25E

5. Lease Designation and Serial No.

14-20-603-263

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

MCELMO CREEK UNIT

8. Well Name and No.

P-21

9. API Well No.

43-037-16369

10. Field and Pool, or Exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN, UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other **WORKOVER**
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

12-09 & 10 MIRU BLED ANUL PRESS. & TBG. PRESS. ND TREE. REL ON/OFF TOOL. NU BOP.
12-11 & 12 PKR ASS. STUCK. PUMP 25 BBLS HOT WTR. WORK TBG FREE. POOH W/TBG.
12-14 & 15 ATTEMPTING TO RETRIEVE PKR. RIH W/SWEGE NU DOUBLE BOP. TAG PKR.
12-16 & 17 CONTINUE TO RETRIEVE PKR.
12-18 & 20 SNUB HOLE W/ 2 7/8 PUSH PKR TO 5587 TAG BOT. RIN W/7 23# PKR/PUMP OUT PLUG. TORQUE TURN TBG.
12-21 & 22 FIN. SUBBING & GIH W/PROD. EQUIP. SET PKR @5318. LOADED TBG W/PROD WTR BLED DOWN CO2 FROM ANN. LOAD ANN W/PROD WTR. TEST ANN TO 1000#/OK. ND SNUBBING EQUIP. & BOP. DISPLACE HOLE W/FW & TRETOLITES 0037 PKR FLUID. TEST ANN TO 1000#/30 MIN/OK. RDMO TURNED WELL TO PRODUCTION FOR MIT

RECEIVED

JAN 14 1993

**DIVISION OF
OIL GAS & MINING**

14. I hereby certify that the foregoing is true and correct

Signed

Shirley Todd

SHIRLEY TODD

Title

ENGINEER TECHNICIAN

Date

1-12-93

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

STATE OF UTAH
INVENTORY OF INJECTION WELLS

OPERATOR	API NO.	WELL	TNS	RGE	SE	WELLTYPE	INDIAN COUNT
*****	*****	*****	***	***	**	*****	*****
✓MEPNA (MOBIL	43-037-30974	G-21A	41S	24E	13	INJW	Y
✓MEPNA (MOBIL	43-037-16344	E-23	41S	24E	14	INJW	Y
✓MEPNA (MOBIL	43-037-16343	E-21	41S	24E	14	INJW	Y
✓MEPNA (MOBIL	43-037-16353	I-25	41S	24E	24	INJW	Y
✓MEPNA (MOBIL	43-037-16349	G-25	41S	24E	24	INJW	Y
✓MEPNA (MOBIL	43-037-16384	V-15	41S	25E	3	INJI	Y
✓MEPNA (MOBIL	43-037-16383	V-13	41S	25E	3	INJW	Y
✓MEPNA (MOBIL	43-037-16157	U-16	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16148	R-13	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16149	R-15	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16378	T-13	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16379	T-15	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16156	U-14	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16152	S-16	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16151	S-14	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16365	O-14	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15969	O-16	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-16363	N-15	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15966	N-13	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15975	Q-16	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15974	Q-14	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15972	P-15	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-16368	P-13	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15960	L-15	41S	25E	6	INJI	Y
✓MEPNA (MOBIL	43-037-16355	J-13	41S	25E	6	INJW	Y
✓MEPNA (MOBIL	43-037-15959	L-13	41S	25E	6	INJW	Y
✓MEPNA (MOBIL	43-037-15963	M-14	41S	25E	6	INJI	Y
✓MEPNA (MOBIL	43-037-15957	K-16	41S	25E	6	INJI	Y
✓MEPNA (MOBIL	43-037-15954	J-15	41S	25E	6	INJI	Y
✓MEPNA (MOBIL	43-037-15956	K-14	41S	25E	6	INJW	Y
✓MEPNA (MOBIL	43-037-16361	M-16	41S	25E	6	INJW	Y
✓MEPNA (MOBIL	43-037-15498	J-17	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15511	M-20	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15510	M-18	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15505	L-19	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-16360	L-17	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15503	K-20	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-16357	K-18	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-16356	J-19	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15519	P-17	41S	25E	8	INJW	Y
✓MEPNA (MOBIL	43-037-15515	N-19	41S	25E	8	INJW	Y
✓MEPNA (MOBIL	43-037-15514	N-17	41S	25E	8	INJW	Y
✓MEPNA (MOBIL	43-037-15520	P-19	41S	25E	8	INJW	Y
✓MEPNA (MOBIL	43-037-15517	O-18	41S	25E	8	INJW	Y
✓MEPNA (MOBIL	43-037-16373	R-19	41S	25E	9	INJW	Y
✓MEPNA (MOBIL	43-037-15976	R-17	41S	25E	9	INJI	Y
✓MEPNA (MOBIL	43-037-16380	T-17	41S	25E	9	INJW	Y
✓MEPNA (MOBIL	43-037-16374	R-21	41S	25E	16	INJW	Y
✓MEPNA (MOBIL	43-037-31439	P-23A	41S	25E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15516	N-21	41S	25E	17	INJW	Y
✓MEPNA (MOBIL	43-037-16369	P-21	41S	25E	17	INJW	Y
✓MEPNA (MOBIL	43-037-16364	N-23	41S	25E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15507	L-23	41S	25E	18	INJW	Y

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ **Well File** _____

☐ **Suspense**
(Return Date) _____
(To - Initials) _____

☒ **Other**
OPER NM CHG _____

(Location) Sec _____ Twp _____ Rng _____

(API No.) _____

1. Date of Phone Call: 8-3-95 Time: _____

2. DOGM Employee (name) L. CORDOVA (Initiated Call ☐)
Talked to:

Name R. J. FIRTH (Initiated Call ☒) - Phone No. () _____

of (Company/Organization) _____

3. Topic of Conversation: M E P N A / N7370

4. Highlights of Conversation: _____

OPERATOR NAME IS BEING CHANGED FROM M E P N A (MOBIL EXPLORATION AND PRODUCING
NORTH AMERICA INC) TO MOBIL EXPLOR & PROD. THE NAME CHANGE IS BEING DONE AT
THIS TIME TO ALLEVIATE CONFUSION, BOTH IN HOUSE AND AMONGST THE GENERAL PUBLIC.

*SUPERIOR OIL COMPANY MERGED INTO M E P N A 4-24-86 (SEE ATTACHED).

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth
Associate Director

RECEIVED
MAY 16 1986

DIVISION OF
OIL, GAS & MINING

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,



CNE/rd
CNE8661

R. D. Baker
Environmental Regulatory Manager

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

1-LEC	7-PL
2-LWP	8-SJ
3-DE	9-FILE
4-VLC	
5-RJF	
6-LWP	

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☐ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator **XXX** Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-2-95)

TO (new operator) **MOBIL EXPLOR & PROD**
 (address) **C/O MOBIL OIL CORP**
PO DRAWER G
CORTEZ CO 81321
 phone (303) **564-5212**
 account no. **N7370**

FROM (former operator) **M E P N A**
 (address) **C/O MOBIL OIL CORP**
PO DRAWER G
CORTEZ CO 81321
 phone (303) **564-5212**
 account no. **N7370**

Well(s) (attach additional page if needed):

Name: ** SEE ATTACHED **	API: <u>037-16369</u>	Entity: _____	Sec: _____	Twp: _____	Rng: _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec: _____	Twp: _____	Rng: _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec: _____	Twp: _____	Rng: _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec: _____	Twp: _____	Rng: _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec: _____	Twp: _____	Rng: _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec: _____	Twp: _____	Rng: _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec: _____	Twp: _____	Rng: _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.
- N/A 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- Lee 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)
- LWP 6. Cardex file has been updated for each well listed above. 8-21-95
- LWP 7. Well file labels have been updated for each well listed above. 9-28-95
- Lee 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-95)
- Lee 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Lee* 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A* 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

** No Fee Lease Wells at this time!*

- N/A* *Lee* 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- ____ 2. A copy of this form has been placed in the new and former operators' bond files.
- ____ 3. The former operator has requested a release of liability from their bond (yes/no) ____.
Today's date _____ 19____. If yes, division response was made by letter dated _____ 19____.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A* *OTS* *8/5/95* 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A* 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- ✓* 1. All attachments to this form have been microfilmed. Date: October 4 1995.

FILING

- ____ 1. Copies of all attachments to this form have been filed in each well file.
- ____ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

950803 LIC F5/Not necessary!

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT -" for such proposals



FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

Lease Designation and Serial No.

14-20-603-263

6. If Indian, Allottee or Tribe Name

GREATER ANETH

7. If Unit or CA, Agreement Designation

MCELMO CREEK UNIT

8. Well Name and No.

P-21

9. API Well No.

43-037-16369

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well

☐ Gas Well

☒ Other

INJECTOR

2. Name of Operator Mobil Exploration & Producing U.S. Inc.
as Agent for Mobil Producing TX & NM Inc.

3. Address and Telephone No.

P.O. Box 633, Midland, TX 79702

(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FNL, 1980' FEL

SEC. 17, T41S, R24E

38E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION



Notice of Intent



Subsequent Report



Final Abandonment Notice

TYPE OF ACTION



Abandonment



Recompletion



Plugging Back



Casing Repair



Altering Casing



Other

WORKOVER



Change of Plans



New Construction



Non-Routine Fracturing



Water Shut-Off



Conversion to Injection



Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

SEE ATTACHED PROCEDURES

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

14. I hereby certify that the foregoing is true and correct

Signed

Shirley Robertson

Title ENV. & REG. TECHNICIAN

Date 3-5-96

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

McElmo Creek P-21
Workover Procedure

1. Lock and tag out all power sources. RU pump and pump lines to christmas tree. Bullhead 50 bbls of 10 ppg brine into well. Observe well the next day to confirm if well is dead.
2. MI workover rig having 108' derrick. Bleed off casing pressure. Unbolt tree and PU 20,000 lbs tension and rotate 1 turn to the left to close downhole shut off valve. If well is not dead, bleed off tubing pressure to confirm downhole shut off valve is closed. If downhole shut off valve does not hold, RIH with a plug on slickline and set in 1.81" profile nipple.
3. Release on/off tool. ND tree. NU and PT BOP's to 3000 psi high and 250 psi low. Circulate hole to 10 ppg brine. PT casing to 1000 psi for 30 minutes (5 percent or less leakoff is acceptable). POH laying down injection tubing. Use open rotary type tongs with backup on collar (Do not use Foster type closed rotary tongs). Install thread protectors while laying down tubing. Send injection tubing to Permian Enterprises in Odessa, Texas for inspection/repair. Send tree to Big Bed Tool, Farmington for inspection and replacement of AB modified teflon seal ring in bottom of tree. Have tree returned in time for use on this well.
4. If well was not dead, RU snubbing unit. PU and RIH with 2-7/8" J-55 EUE 8rd workstring and on/off tool skirt. Release Guiberson G-6 packer and POH. RIH with 6-1/8" rock bit without nozzles and casing scraper for 7", 23 lb/ft casing on 2-7/8" EUE 8rd workstring and CO to PBTD at 5587' (Top of Junk Packer). POH. NOTE: Space casing scraper out to not enter existing perforations starting at 5360'.
5. If 7" casing failed to PT in Step No. 3, RIH with squeeze packer and locate casing leak. POH. RIH with squeeze packer, 2 joints of 2-3/8" tubing and RBP. Set RBP +/- 100' below leak. Set squeeze packer below leak and PT RBP to 2000 psi. Dump 400 lbs of 20/40 sand down workstring slowly and pump to bottom. Wait 1 hour for sand to fall. Reverse out workstring. RIH and tag top of sand to confirm +/- 10' of sand on top of RBP. PU and set tubing tail +/- 50' above location of casing leak. Set Squeeze packer and space out with 15,000 lbs weight. Pressure backside to 1000 psi and monitor. Establish injection rate of +/- 1-2 BPM using 10 ppg brine at maximum surface injection pressure of 2500 psi. Mix and pump 5 bbls fresh water spacer, 100 sxs of class B standard cement with 2 percent CaCl₂, followed with 5 bbls of fresh water spacer and 10 ppg brine.

6. Displace top of slurry to end of tailpipe or to a maximum injection pressure of 2500 psi. Stage squeeze last 4 bbls of cement as necessary to obtain a final squeeze pressure of at least 2000 psi. Release squeeze packer and reverse out. POH. WOC 12 hours.
7. RIH with 6-1/8" rock bit without nozzles and casing scraper on 2-7/8" workstring and drill out cement. Clean out to top of sand on top of RPB. PT casing to 1000 psi. POH. Resqueeze as necessary. If PT OK then RIH with retrieving tool on workstring. Wash sand off RPB and retrieve RBP. POH laying down workstring.
8. RU Schlumberger wireline and lubricator. PT lubricator to 1000 psi or wellhead pressure if higher. RIH with GR/METT/CCL and log from PBTD at 5587' to 4500'. POH.
9. RIH with junk basket/gauge ring to 5320'. POH.

10. RIH with the following production packer assembly on wireline:

DESCRIPTION	MAX. O.D. in.	MIN. I.D. in.	LENGTH ft.
7" X 3.5" 23 lb/ft wireline set Guiberson Uni-X retrievable seal bore packer (Nickel plated and plastic coated) with 90 Duro Nitrile ends w/78 Duro Polyepichlorohydrin CO2 center elastomers w/4.5' X 3.5" 316 stainless steel seal bore extension w/Aflas o-rings on all threaded connections	6.125	3.5	11.42
316 stainless steel sealbore AB modified box X 2-3/8" EUE 8rd pin x-over	4.75	1.995	0.75
6 ft 316 stainless steel 2-3/8", 4.7 lb/ft pup joint w/EUE 8rd AB Modified box X pin	3.063	1.995	6.0
316 stainless steel Model F non-ported seating nipple, Size 1.812 w/2-3/8", 4.7 lb/ft EUE 8rd AB Modified box X pin	3.063	1.812	1.0
6 ft 316 stainless steel 2-3/8", 4.7 lb/ft pup joint w/EUE 8rd AB Modified box X pin	3.063	1.995	6.0
316 stainless steel Model R non-ported NoGo seating nipple, Size 1.781 w/2-3/8", 4.7 lb/ft EUE 8rd AB Modified box X pin	3.063	1.728	1.0
316 stainless steel wireline entry guide w/pump-out plug, size 2-3/8", 4.7 lb/ft EUE 8rd AB Modified box	3.063	1.995 (After plug pumped out)	0.5

NOTE: All connections to be made up with Baker super B.

11. Set top of packer at 5300'EL. NOTE: Based on METT log, packer depth can be adjusted to not set in bad casing or collar. POH with setting tool. Bleed off casing pressure. RDMO wireline. RD snubbing unit if it was required in previous steps.

12. PU and RIH with the following latch type seal assembly and used/inspected KCTS fluoro-lined injection string:

DESCRIPTION	MAX. O.D.	MIN. I.D.	LENGTH
	in.	in.	ft.
2-3/8", 4.7 lb/ft AB Modified 8rd X 3.5" Guiberson latch nipple w/ATR seals, 7 ft long spacer tube, one ATR seal nipple, one ATR seal unit, one ATR seal unit made of 316 stainless steel, 1/2 muleshoe made of 316 stainless steel, I.D. of flow area of seal assembly is plastic coated, all 8 TPI stub acme boxes to have Aflas o-rings, all 10 rd boxes to be AB modified with Teflon rings installed. Assembly to be pressure tested to 3000 psi using nitrogen prior to being sent to location.	3.45	1.901	11.0
316 stainless steel Model F non-ported seating nipple, Size 1.87 w/2-3/8", 4.7 lb/ft EUE 8rd AB Modified box x pin	3.063	1.87	2.0
316 stainless steel 2-7/8", 6.5 lb/ft EUE 8rd AB Modified Box X 2-3/8", 4.7 lb/ft EUE 8rd pin x-over	3.668	2.25	1.0
2-7/8" KCTS box X EUE 8rd pin	3.668	2.14	1.0
2-7/8", 6.5 lb/ft J-55 KCTS (Threadmasters Torque Ring) Fluoro-lined Tubing w/pup joints as required	3.668	2.14	+/- 5295'

NOTE: A. All used KCTS tubing to be torque turned to 2250 ft-lbs. All connections of seal assembly and tubing to be made up using Baker super B containing teflon. Use permitex on permits. Bill Allman (505/632-8702) to be on location while running tubing.

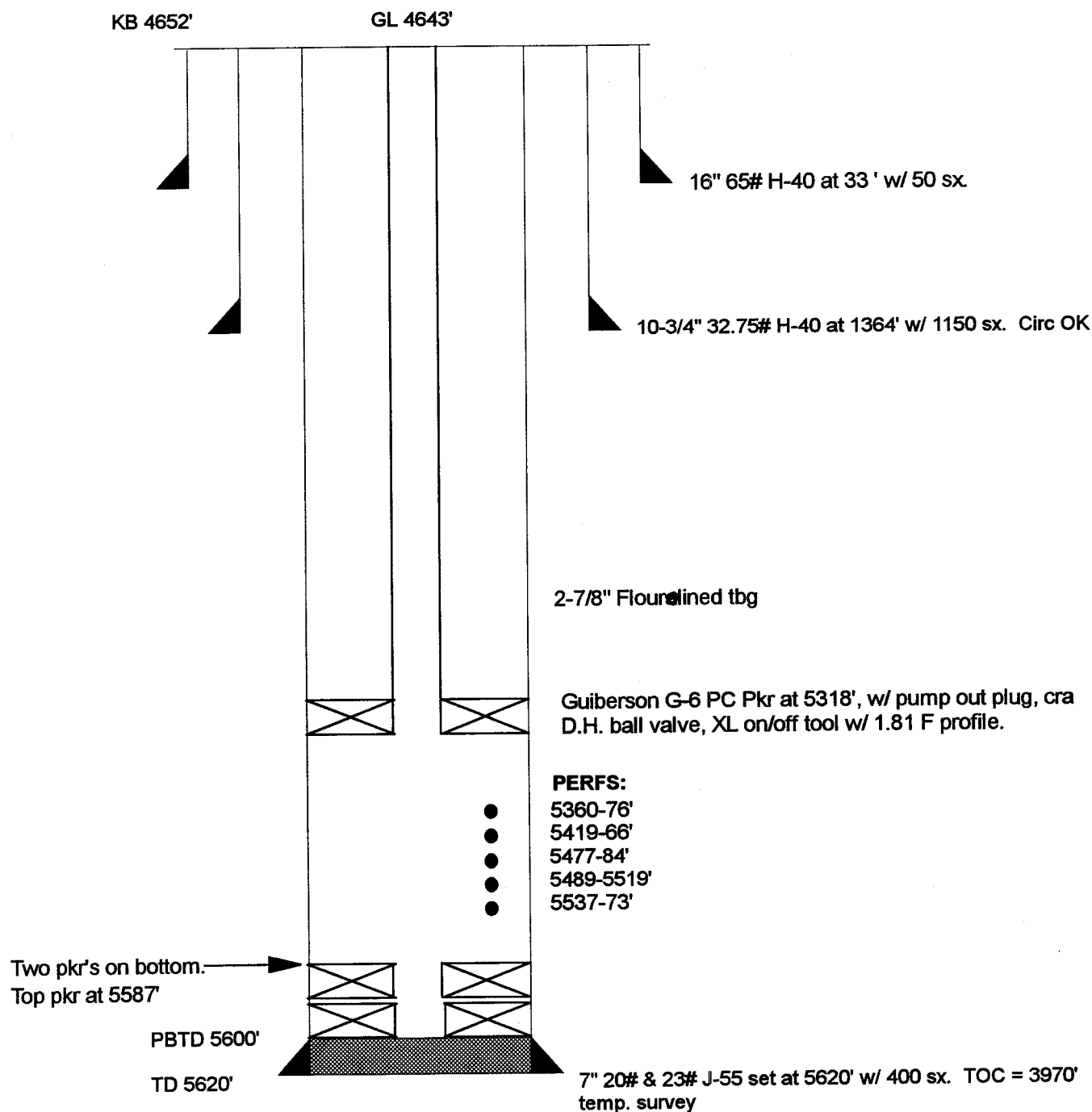
B. Rabbit tubing with 2.0" O.D. rabbit.

13. Sting seal assembly into production packer and space out for 15,000 lbs compression at surface. PT backside to 500 psi. Rotate to the right and release seal assembly from packer. Install necessary 2-7/8", 6.5 lb/ft J-55 KCTS fluoro-lined tubing pup joints and landing sub. Reverse circulate fresh water packer fluid containing 1 percent by volume of Tretolite CRW137 corrosion inhibitor/oxygen scavenger.
14. ND BOPS. Screw on christmas tree. Insure that Teflon ring in box on christmas tree is a new ring. Snap into snap latch and confirm by pulling 10,000 lbs tension. Land tree and bolt up flange. Pressure tubing to 2500 psi to shear out pump out plug. RDMO workover rig. Hook up injection lines. Clean location.
15. Perform Mechanical Integrity Test (MIT) for EPA. Contact Jim Walker of the Navajo EPA in Shiprock at 505/368-1040 to witness. Use chart recorder to record test. Send copies of chart to Shirley Robertson Midland - 1046 MOB, Ed Barber, Aneth, and Aneth files. Fill out Utah tax credit form and submit to Tiny Higman, Cortez office. After obtaining an acceptable MIT, place well on water injection on maximum choke.

McELMO CREEK UNIT #P-21
GREATER ANETH FIELD
660' FNL & 1980' FEL
SEC 17-T41S-R25E
SAN JUAN COUNTY, UTAH
API 43-037-16369
PRISM 0000367

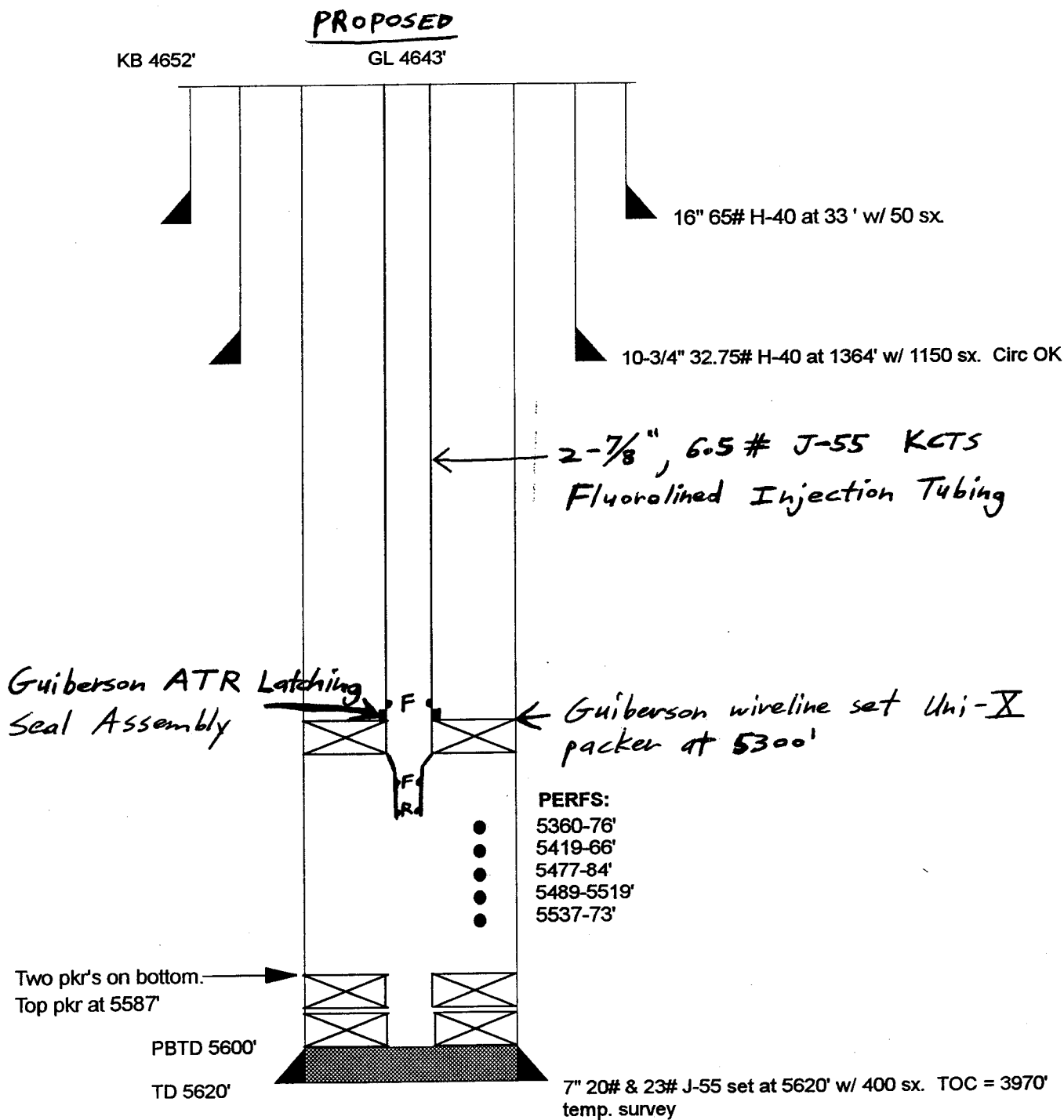
INJECTOR

EXISTING



McELMO CREEK UNIT #P-21
GREATER ANETH FIELD
660' FNL & 1980' FEL
SEC 17-T41S-R25E
SAN JUAN COUNTY, UTAH
API 43-037-16369
PRISM 0000367

INJECTOR



L. A. TUCKER 8/16/95

WELL HISTORY

WELL NAME: McElmo Creek Unit #P-21 INJECTOR
FIELD NAME: Greater Aneth Field
LOCATION: 660' FNL, 1980' FEL, Sec 17-T41S-R25E
COUNTY, STATE: San Juan County, Utah
API NUMBER: 43-037-16369

Completion Date: 11-16-57
Ground Level: 4643' Total Depth: 5620'
KB: 4652' PBTD: 5600'

HISTORY:

9-18-57 to 11-16-57 **DRILL AND COMPLETE:**
OH LOGS: GR-NEUTRON
DRILLED CORE SAMPLES, RAN ANALYSIS.
CSG: 16" 65# H-40 SET AT 33', HOLE 20", W/ 50 SX REG W/ CC. CIRC OK
10-3/4" 32.75# H-40 AT 1364', HOLE 15", W/ 1150 SX REG W/ GEL & CC,
CIRC OK
7" 23# 1571' AND 20# 4107' J-55 AT 5620', HOLE 9", W/ 400 SX POZMIX AND
GEL, TOC = 3970' TEMP SURVEY.
PERFORATED 5537-73, 5489-5519, 5419-66 4 JPF. TREATED USING STRADDLE
PKR W/ 55' SPACING. ATTEMPT TO BREAKDOWN ZONE 5537-73. WOULD NOT
BREAK AT 4100#. SPOT ACID ACROSS PERFS.. PRESS 4000#, SHEAR RELIEF
VALVE. FINISHED ACIDIZING W/ 4000 GAL 15% ACID W/ BRADENHEAD
SQUEEZE. MAX 5100#. AFTER COMM. MAX 2000#, MIN 900# ISIP 1500#. AVG
47 GAL/MIN. FLOWED BACK. RAN CONTROL VALVE. SET PKRS ACROSS
PERFS 5487-5519'. SPOT 33 BBL ACID ON PERFS. PKR WOULDN'T HOLD PRESS.
SHUTIN CSG. ACIDIZED W/ 5500 GAL 15% ACID. MAX/MIN 1650#/1100#. 141
GAL/MIN. ISIP 1300#. FLOW BACK. SET PKRS ACROSS PERFS 5419-66'.
BREAKDOWN AT 2000#. ACIDIZED W/ 6500 GAL 15%. MAX/MIN 2600#/800#, ISIP
1400#. AVG 162.5 GAL/MIN. FLOWED BACK. POOH PKRS. POP

8-17-62 **CONVERT TO INJECTION WELL: RAN 2.5" CMT LINED TBG W/ BAKER MODEL**
N PKR. SET PKR AT 5398'.

9-23-62 **RAN CSG INSPECTION LOG TO 5394' - OK. RAN BAKER DR PLUG, SET INTO PKR**
SEAL ASSEM. AT 5398'. RAN R.A. TRACER LOG, POSSIBLE HOLE IN CSG AT PKR
OR PKR IS LEAKING. RAN 2.5" CMT LINED TBG AND BAKER MODEL N PKR,
SET PKR AT 5369'. RWTL.

9-27-65 **TREATED DOWN 2.5" TBG W/ 21,000 GAL 28% IRON ACID IN 3 EQUAL STAGES**
USING 2-500GAL SALT PLUGS. AVG 9.6 BPM AT 5000#. ISIP 2350#. 2200# IN 13
MIN. RWTL.

1-30-69 CONVERT TO DUAL STRING PRODUCER / INJECTOR. MILLED AND POOH W/ FIRST PKR. MILLED AND DROVE SECOND PKR TO BOTTOM. TAG FILL AT 5552'. CIRC OUT TO 5583'. DID NOT RECOVER 2ND PKR. RIH W/ PKR, SET AT 5405'. PERFORATED 5360-76 2JPF. RIH W/ RBP & PKR. SET BP AT 5410', PKR AT 5275'. ACIDIZED W/ 1000 GAL 28% ACID. 4 BPM 0#. SHUTIN PRESS 250#. SWAB. POOH RBP AND PKR. RAN BAKER LOK-SET PKR AND 2-7/8" CMT LINED TBG. SET PKR AT 5404'. DUAL STRING ANCHOR AT 5365'. RIH W/ BAKER DUAL STRING STINGER, LATCH INTO ANCHOR. SN AT 5353'. RAN PUMP AND RODS.

4-81 PULL DUAL STRING, RUN BACK WITH SINGLE STRING. RBP SET AT 5401' BETWEEN ISMAY AND D.C. ZONES. ON 10-23-81 ISMAY PRODUCING 6 BOPD AND 207 BWPd.

6-24-82 CONVERT WELL TO INJECTION IN ALL ZONES. POOH W/ RBP. PERFORATED 5477-84' 2 JPF. SET PKR AT 5312'. ACIDIZED ALL ZONES W/ 10,000 GAL 28% MSR, HCL ACID + ADD. PUMPED 4 TDA PLUGS. AVG 5 BPM 1150#, ISIP 1100#, 15 MIN 800#. FLOWED AND SWABBED BACK. POOH PKR. RIH W/ MNT STATES LOKSET PKR AND 174 JTS 2-7/8" PLASTIC LINED TBG. SET PKR AT 5300'.

1-11-85 POOH W/ LOKSET PKR. H2S COUNT WAS OVER 1500 PPM AT WELLHEAD. TAGGED AT 5594'. RAN MODEL D PKR AND SET AT 5340'. RIH W/ ON-OFF TOOL, DH SHUTOFF VALVE, AND SEAL ASSEM. RWTI.

8-2-85 BEGAN CO2 INJECTION.

11-24-92 RAN GRADIENT.

12-23-92 SET PLUG IN PROFILE AT 5325'. SNUB TBG OUT OF HOLE, CAME OUT W/ ON-OFF TOOL SKIRT ONLY. HAD TROUBLE GETTING PKR OUT OF HOLE. PUSHED PKR TO 5587'. RIH W/ GUIBERSON G-6 PC PKR W/ PUMP OUT PLUG, CRA DH BALL VALVE, XL ON-OFF TOOL W/ 1.81 F PROFILE ON 173 JTS 2-7/8" FLOUROLINED TBG. SET PKR AT 5318'. TESTED ANNULUS TO 1000# FOR 30 MIN - OK. RWTI.

Source of information: Mobil's Cortez Office files.
LA Tucker August 17, 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator **MOBIL PRODUCING TX & NM INC.***
***MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM**

3. Address and Telephone No.

P.O. Box 633, Midland TX 79702 (915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

(NW/NE) SEC.17, T41S, R25E
660' FSL & 1980' FEL

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

14-20-603-263

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

MCELMO CREEK UNIT

8. Well Name and No.

MCELMO CREEK UNIT P-21

9. API Well No.

43-037-16369

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

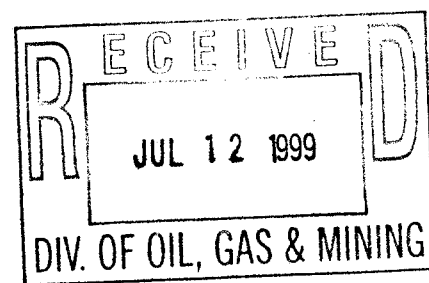
- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other **MIT & CHART**
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

SCHEDULED MIT (1999)

ATTACHED MIT & CHART



14. I hereby certify that the foregoing is true and correct

Signed

Shirley Houchins

Title

SHIRLEY HOUCHINS, ENV. & REG. TECH

Date **7-09-99**

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

ANNULAR PRESSURE TEST

(Mechanical Integrity Test)

Operator MOBILE.E.P., INC. Date of Test 6-28-99
Well Name McElmo Creek Unit Well # P-21 EPA Permit No. _____
Location SEC 17, T41S, R25E Tribal Lease No. 1470603263
State and County SAN JUAN COUNTY, Utah

Continuous Recorder? YES ☒ NO ☐

Pressure Gauge? YES ☒ NO ☐

Bradenhead Opened? YES ☒ NO ☐

Fluid Flow? YES ☒ NO ☐

TIME	ANNULUS PRESSURE, psi <i>0-1500psi gauge</i>	ANNULUS PRESSURE, psi <i>0-1500psi recorder</i>	TUBING PRESSURE, psi <i>0-5000psi gauge</i>
12:55pm	1100	1135	2495
1:00pm	1100	1125	2495
1:05pm	1100	1125	2495
1:10pm	1100	1120	2495
1:15pm	1100	1120	2495
1:20pm	1100	1120	2495
1:25pm	1100	1120	2495

MAX. INJECTION PRESSURE: 2750 PSI

MAX. ALLOWABLE PRESSURE CHANGE: 55.0 PSI (TEST PRESSURE X 0.05)

REMARKS: Passed? Failed? If failed, cease injection until well passes MIT (40CFR§144.21(c)(6)).

Fluid from bradenhead was going to be bled off into truck by Mobile E.P., Inc.

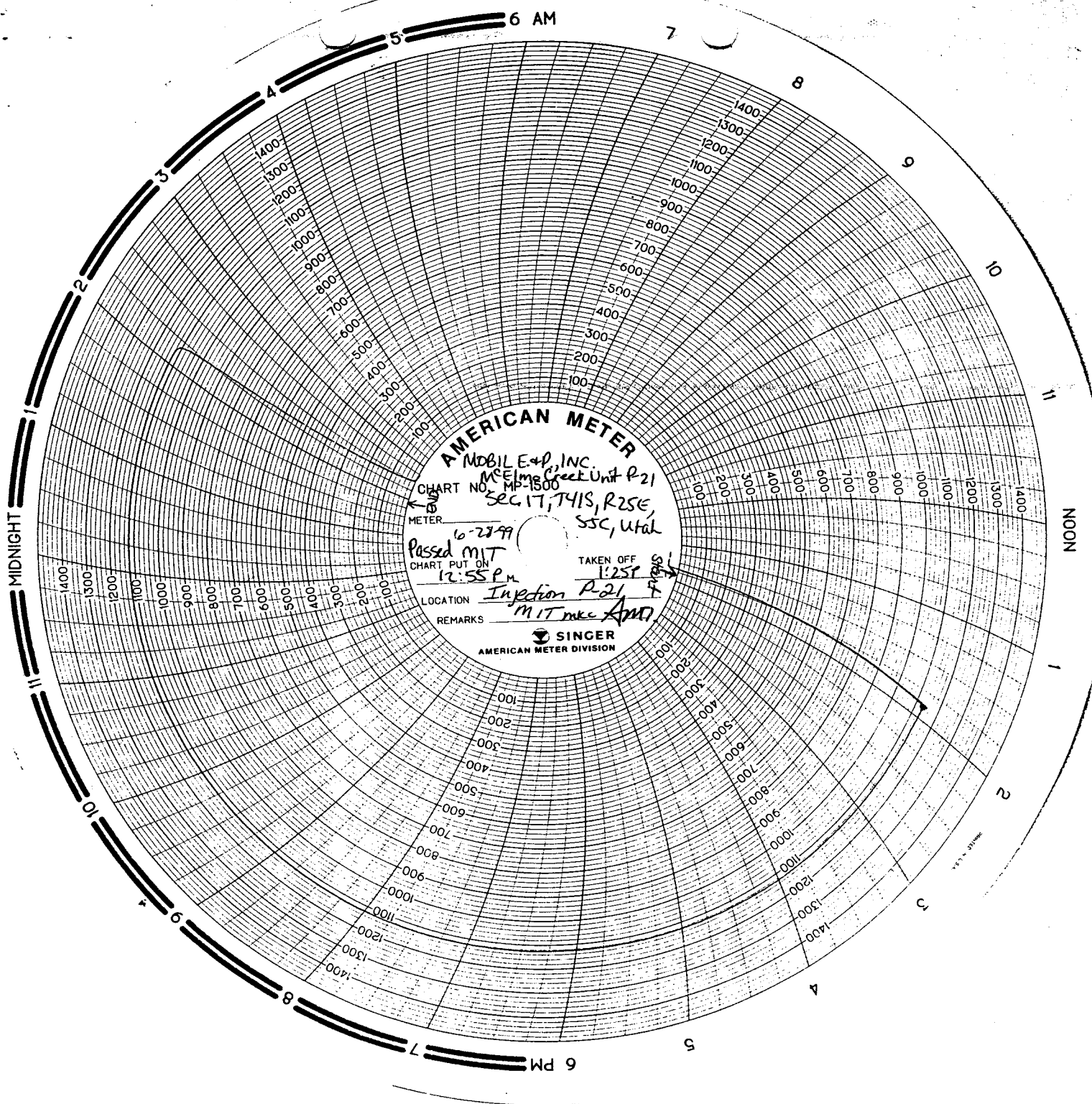
Passed MIT

Albert M. Tontson
COMPANY REPRESENTATIVE: (Print and Sign)

6-28-99
DATE

Melvin K. Clah
INSPECTOR: (Print and Sign)

6-28-99
DATE



AMERICAN METER

MOBILE E&P, INC.
McElm Creek Unit P21
SEC 17, T41S, R25E,
SSC, Utah

CHART NO. MP-1500
METER 6-2899
Passed MIT
CHART PUT ON 12:55 P.M.

TAKEN OFF 1:25 P.M.

LOCATION Injection P21
REMARKS MIT mke AMT

SINGER
AMERICAN METER DIVISION

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires: July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS
*Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.*

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other **INJECTION WELL**

2. Name of Operator

Mobil Producing TX. & N.M. Inc.

3a. Address **P.O. Box 4358**

Houston

TX 77210-4358

3b. Phone No. (include area code)

(713) 431-1197

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

(NW/NE) 660' FSL & 1980' FEL

Sec 17 T-41-S R-25-E

5. Lease Serial No.

14-20-603-263

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA/Agreement, Name and/or No.

MCELMO CREEK UNIT

8. Well Name and No.

McElmo Creek Unit

P-21

9. API Well No.

43-037-16369

10. Field and Pool, or Exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN

UT

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Repair tbg leak; return to injection
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including recalculation, have been completed, and the operator has determined that the site is ready for final inspection.)

Attached is a summary of the work performed on McElmo Creek Unit #P-21 from 4/25/00 - 5/05/00, and a copy of the MIT chart dated 5/19/00.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

RECEIVED

JAN 11 2001

DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Ellen M. Carroll

Title

Sr. Staff Office Assistant

**ExxonMobil Production Company
A division of Exxon Mobil Corporation
acting for Mobil Producing
Texas & New Mexico, Inc.**

Signature

Ellen M. Carroll

Date

01/10/2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on Reverse)

DETAILED DAILY REPORT
MCELMO CREEK #P-21
SAN JUAN COUNTY, UTAH
43-037-16369

4/25/00

Moved rig to location. Need to install blind flanges to ensure energy isolation

4/26/00

RUWSU, Bled off csg pressure (1800 psi). NDWH, NU and test BOPE, Release seal assembly.

4/27/00

Finish testing out of the hole. Found a hole in jt. 87. Found 3 other bad joints. RIH with killstring.

4/28/00

RIG UP CAMPBELL N2 TESTERS AND TEST INJ STRING IN HOLE. FOUND 37 CONNECTION LEAKS AND ONE BODY LEAK (HAIRLINE CRACK).

4/29/00

N2 TEST SINGLES AND SUBS, LAND IN PACKER, UN-J AND CIRCULATE INHIBITED FLUID. NDBOP/NUWH. LEFT PACKER IN 15K# COMPRESSION. TESTED ANNULUS TO 1000# FOR 30 MIN.

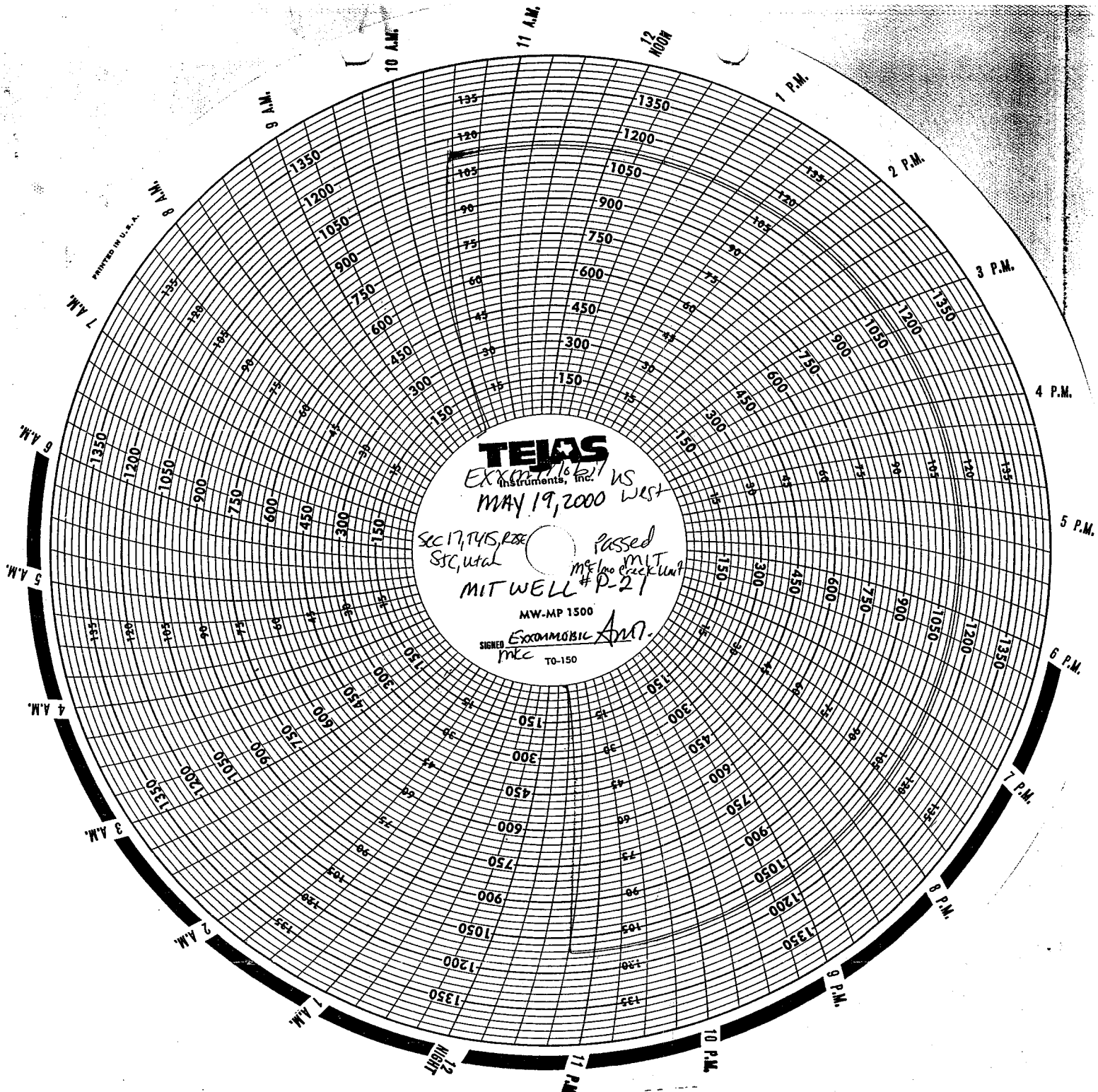
5/5/00

Pulled plug from profile nipple. Notified field to hook up injection line and to perform MIT.

RECEIVED

JUN 1 1999

DIVISION OF
OIL, GAS AND MINING



PRINTED IN U.S.A.

TEXAS

EXCOMM, Inc. US

MAY 19, 2000 WEST

SEC 17, 145, R&E passed
SIC, Utah mfg. no. 1000
MITWELL # P-21

MW-MP 1500

SIGNED EXCOMM, Inc. AM.
mcc TO-150

Permits

MAY 25 2000

RECEIVED

10 11 00

DIVISION OF
OIL, GAS AND MINING

ExxonMobil Production Company
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

June 27, 2001

ExxonMobil
Production

Mr. Jim Thompson
State of Utah, Division of Oil, Gas and Mining
1549 West North Temple
Suite 1210
Salt Lake City, UT 84114-5801

Change of Name – Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Mr. Thompson

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

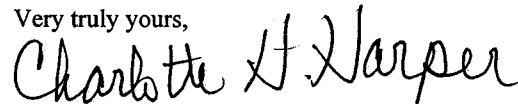
Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

A copy of the Certification, Bond Rider and a list of wells are attached.

If you have any questions please feel free to call Joel Talavera at 713-431-1010

Very truly yours,



Charlotte H. Harper
Permitting Supervisor

ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

RECEIVED

JUN 29 2001

DIVISION OF
OIL, GAS AND MINING



IN REPLY REFER TO:

United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

~~XXXXXXXXXXXXXX~~
 Navajo Area Office
NAVAJO REGION

P.O. Box 1060

Gallup, New Mexico 87305-1060

AUG 30 2001

RRES/543

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Charlotte H. Harper, Permitting Supervisor
 Exxon Mobil Production Company
 U. S. West
 P. O. Box 4358
 Houston, TX 77210-4358

Dear Ms. Harper:

This is to acknowledge receipt of your company's name change from Mobil Oil Corporation to ExxonMobil Oil Corporation effective June 1, 2001. The receipt of documents includes the Name Change Certification, current listing of Officers and Directors, Listing of Leases, Financial Statement, filing fees of \$75.00 and a copy of the Rider for Bond Number 8027 31 97. There are no other changes.

Please note that we will provide copies of these documents to other concerned parties. If you need further assistance, you may contact Ms. Bertha Spencer, Realty Specialist, at (928) 871-5938.

Sincerely,

DENNETSONE

Regional Realty Officer

cc: BLM, Farmington Field Office w/enclosures ✓
 Navajo Nation Minerals Office, Attn: Mr. Akhtar Zaman, Director/w enclosures

MINERAL RESOURCES	
ADM 1	<i>DB/MC</i>
NATV AM MIN COORD _____	
SOLID MIN TEAM _____	
PETRO MENT TEAM <i>2</i> _____	
O & G INSPECT TEAM _____	
ALL TEAM LEADERS _____	
LAND RESOURCES _____	
ENVIRONMENT _____	
FILES _____	

ExxonMobil Production Company
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

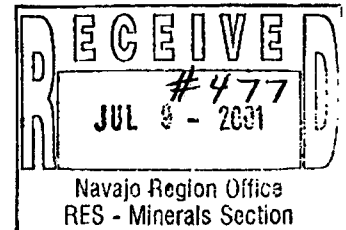
PS 7/12/2001
GA
543
File

June 27, 2001

ExxonMobil
Production

Certified Mail
Return Receipt Requested

Ms. Genni Denetsone
United States Department of the Interior
Bureau of Indian Affairs, Navajo Region
Real Estate Services
P. O. Box 1060
Gallup, New Mexico 87305-1060
Mail Code 543



Change of Name –
Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Ms. Denetsone:

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

Attached is the Name Change Certification, Current listing of Officers and Directors, Filing Fee of \$75/-, Listing of Leases, Financial Statement and a copy of the Rider for Bond number 8027 31 97. The original Bond Rider has been sent to Ms. Barbar Davis at your Washington Office.

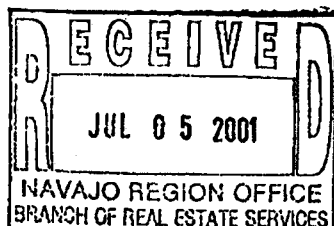
If you have any questions, please contact Alex Correa at (713) 431-1012.

Very truly yours,

Charlotte H. Harper

Charlotte H. Harper
Permitting Supervisor

Attachments



ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

NOTE: Check forwarded to Ella Isaac

Bureau of Indian Affairs
Navajo Region Office
Attn: RRES - Mineral and Mining Section
P.O. Box 1060
Gallup, New Mexico 87305-1060

Gentlemen:

The current listing of officers and director of ExxonMobil Oil Corporation (Name of Corporation), of New York (State) is as follows:

OFFICERS

President	<u>F.A. Risch</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Vice President	<u>K.T. Koonce</u>	Address <u>800 Bell Street Houston, TX 77002</u>
Secretary	<u>F.L. Reid</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Treasure	<u>B.A. Maher</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>

DIRECTORS

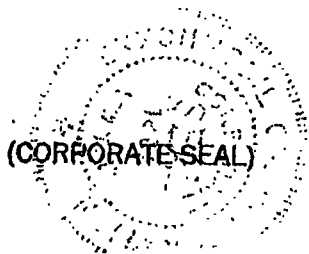
Name	<u>D.D. Humphreys</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>P.A. Hanson</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>T.P. Townsend</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>B.A. Maher</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>F.A. Risch</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>

Sincerely,



Alex Correa

This is to certify that the above information pertaining to ExxonMobil Oil Corporation (Corporation) is true and correct as evidenced by the records and accounts covering business for the State of Utah and in the custody of Corporation Service Company (Agent), Phone: 1 (800) 927-9800, whose business address is One Utah Center, 201 South Main Street, Salt Lake City, Utah 84111-2218



Signature

AGENT AND ATTORNEY IN FACT

Title

SAL

CERTIFICATION

I, the undersigned Assistant Secretary of ExxonMobil Oil Corporation. (formerly Mobil Oil Corporation), a corporation organized and existing under the laws of the State of New York, United States of America, DO HEREBY CERTIFY, That, the following is a true and exact copy of the resolutions adopted by the Board of Directors on May 22, 2001:

CHANGE OF COMPANY NAME

WHEREAS, the undersigned Directors of the Corporation deem it to be in the best interest of the Corporation to amend the Certificate of Incorporation of the Corporation to change the name and principal office of the Corporation:

NOW THEREFORE BE IT RESOLVED, That Article 1st relating to the corporate name is hereby amended to read as follows:

"1st The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

FURTHER RESOLVED, That the amendment of the Corporation's Certificate of Incorporation referred to in the preceding resolutions be submitted to the sole shareholder of the Corporation entitled to vote thereon for its approval and, if such shareholder gives its written consent, pursuant to Section 803 of the Business Corporation Law of the State of New York, approving such amendment, the proper officers of the Corporation be, and they hereby are, authorized to execute in the name of the Corporation the Certificate of Amendment of Certificate of Incorporation, in the form attached hereto;


FURTHER RESOLVED, That the proper officers of the Corporation be and they hereby are authorized and directed to deliver, file and record in its behalf, the Certificate of Amendment of Certificate of Incorporation, and to take such action as may be deemed necessary or advisable to confirm and make effective in all respects the change of this Company's name to EXXONMOBIL OIL CORPORATION.

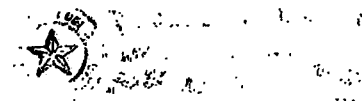
WITNESS, my hand and the seal of the Corporation at Irving, Texas, this 8th day of June, 2001.


Assistant Secretary

COUNTY OF DALLAS)
STATE OF TEXAS)
UNITED STATES OF AMERICA)

Sworn to and subscribed before me at Irving, Texas, U. S. A. on this the 8th day of June, 2001.


Notary Public



LISTING OF LEASES OF MOBIL OIL CORPORATION**Lease Number**

- 1) 14-20-0603-6504
- 2) 14-20-0603-6505
- 3) 14-20-0603-6506
- 4) 14-20-0603-6508
- 5) 14-20-0603-6509
- 6) 14-20-0603-6510
- 7) 14-20-0603-7171
- 8) 14-20-0603-7172A
- 9) 14-20-600-3530
- 10) 14-20-603-359
- 11) 14-20-603-368
- 12) 14-20-603-370
- 13) 14-20-603-370A
- 14) 14-20-603-372
- 15) 14-20-603-372A
- 16) 14-20-603-4495
- 17) 14-20-603-5447
- 18) 14-20-603-5448
- 19) 14-20-603-5449
- 20) 14-20-603-5450
- 21) 14-20-603-5451

6/1/01

CHUBB GROUP OF INSURANCE COMPANIES

1000 Texas Street, Suite 1400, Houston, Texas 77027-3501
Telephone: (713) 297-4600 • Facsimile: (713) 297-4750

NW Bond

FEDERAL INSURANCE COMPANY RIDER
to be attached to and form a part of

BOND NO 8027 31 97

wherein

Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc. is
named as Principal and

FEDERAL INSURANCE COMPANY AS SURETY,

in favor of **United States of America, Department of the Interior**
Bureau of Indian Affairs

in the amount of **\$150,000.00**
bond date: 11/01/65

IT IS HEREBY UNDERSTOOD AND AGREED THAT effective June 1, 2001
the name of the Principal is changed

FROM: Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc.

TO : ExxonMobil Oil Corporation


All other terms and conditions of this Bond are unchanged.

Signed, sealed and dated this 12th of June, 2001.

ExxonMobil Oil Corporation

By: 

FEDERAL INSURANCE COMPANY

By: 
Mary Pierson, Attorney-in-fact

**Chubb
Surety****POWER
OF
ATTORNEY****Federal Insurance Company
Vigilant Insurance Company
Pacific Indemnity Company****Attn.: Surety Department
15 Mountain View Road
Warren, NJ 07059**

Know All by These Presents, That **FEDERAL INSURANCE COMPANY**, an Indiana corporation, **VIGILANT INSURANCE COMPANY**, a New York corporation, and **PACIFIC INDEMNITY COMPANY**, a Wisconsin corporation, do each hereby constitute and appoint **R.F. Bobo,**
Mary Pierson, Philana Berros, and Jody E. Specht of Houston, Texas-----

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY** have each executed and attested these presents and affixed their corporate seals on this 10th day of May, 2001.

Kenneth C. Wendel, Assistant Secretary

Frank E. Robertson, Vice President

STATE OF NEW JERSEY } ss.
 County of Somerset

On this 10th day of May, 2001

to me known to be Assistant Secretary of **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY**, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel being by me duly sworn, did depose and say that he is Assistant Secretary of **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY** and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with Frank E. Robertson, and knows him to be Vice President of said Companies; and that the signature of Frank E. Robertson, subscribed to said Power of Attorney is in the genuine handwriting of Frank E. Robertson, and was thereto subscribed by authority of said Companies in the presence of the deponent's presence.



Notary Public State of New Jersey
 No. 2231647

Commission Expires Oct. 28, 2004

Karen A. Price, Notary Public

Extract from the By-Laws of **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY**:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY** (the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U. S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U. S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this 12th day of June, 2001



Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY
 Telephone (908) 903-3485 Fax (908) 903-3656 e-mail: surety@chubb.com

CSC

5184334741

06/01 '01 08:46 NO.410 03/05

CSC

06/01 '01 09:06 NO.135 02/04

F010601000187

**CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
MOBIL OIL CORPORATION**

CSC 45

(Under Section 805 of the Business Corporation Law)

Pursuant to the provisions of Section 805 of the Business Corporation Law, the undersigned President and Secretary, respectively, of Mobil Oil Corporation hereby certify:

FIRST: That the name of the corporation is **MOBIL OIL CORPORATION** and that said corporation was incorporated under the name of Standard Oil Company of New York.

SECOND: That the Certificate of Incorporation of the corporation was filed by the Department of State, Albany, New York, on the 10th day of August, 1882.

THIRD: That the amendments to the Certificate of Incorporation effected by this Certificate are as follows:

(a) Article 1st of the Certificate of Incorporation, relating to the corporate name, is hereby amended to read as follows:

"1st The corporate name of said Company shall be,
ExxonMobil Oil Corporation,"

(b) Article 7th of the Certificate of Incorporation, relating to the office of the corporation is hereby amended to read as follows:

The office of the corporation within the State of New York is to be located in the County of Albany. The Company shall have offices at such other places as the Board of Directors may from time to time determine.

CSC
CSC

5184334741

06/01 '01 08:47 NO.410 04/05
06/01 '01 09:06 NO.133 03/04

FOURTH: That the amendments to the Certificate of Incorporation were authorized by the Board of Directors followed by the holder of all outstanding shares entitled to vote on amendments to the Certificate of Incorporation by written consent of the sole shareholder dated May 22, 2001.

IN WITNESS WHEREOF, this Certificate has been signed this 22nd Day of May, 2001.


F. A. Risch, President

STATE OF TEXAS)
COUNTY OF DALLAS)

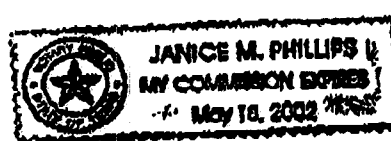
F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.


F. L. REID, Secretary

SUBSCRIBED AND SWORN TO before me, the undersigned authority, on this the 22nd day of May, 2001.

[SEAL]


NOTARY PUBLIC, STATE OF TEXAS



=> CSC

.TEL=5184334741

06/01'01 08:19

CSC
CSC

5184334741

06/01 '01 09:01 NO. 411 02/02
06/01 '01 09:06 NO. 152 04/04
F010601000187**CSC 45****CERTIFICATE OF AMENDMENT****OF****MOBIL OIL CORPORATION**

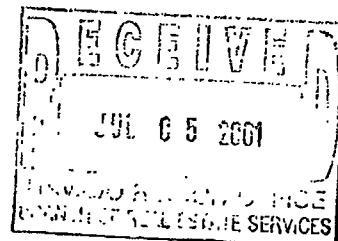
Under Section 805 of the Business Corporation Law

**STATE OF NEW YORK
DEPARTMENT OF STATE**Filed by: EXXONMOBIL CORPORATION
(Name)

FILED JUN 01 2001

5959 Las Colinas Blvd.
(Mailing address)

TAX \$

BY: *SAC*Irving, TX 75039-2298
(City, State and Zip code)*ny Albany**Cust Ref # 165578 MPJ***010601000195**

=> CSC

TEL=5184334741

06/01'01 08:19

State of New York }
Department of State } ss:

I hereby certify that the annexed copy has been compared with the original document in the custody of the Secretary of State and that the same is a true copy of said original.

Witness my hand and seal of the Department of State on **JUN 01 2001**



Special Deputy Secretary of State

3. FILE

Designation of Agent

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective: **06-01-2001**

FROM: (Old Operator):	TO: (New Operator):
MOBIL EXPLORATION & PRODUCTION	EXXONMOBIL OIL CORPORATION
Address: P O BOX DRAWER "G"	Address: U S WEST P O BOX 4358
CORTEZ, CO 81321	HOUSTON, TX 77210-4358
Phone: 1-(970)-564-5212	Phone: 1-(713)-431-1010
Account No. N7370	Account No. N1855

CA No.

Unit: MCELMO CREEK

WELL(S)

[illegible]

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- Enter date after each listed item is completed
1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/29/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/29/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 04/09/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 579865-0143
5. If **NO**, the operator was contacted on: N/A

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BIA-06/01/01

7. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 06/01/2001

8. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. **Underground Injection Control ("UIC")**

The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 04/16/2002

NOTE: EPA ISSUES UIC PERMITS

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 04/16/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 04/16/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: N/A

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 80273197

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING

1. DJJ

2. CDW

X Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:		6/1/2006		
<table border="1"> <tr> <td> FROM: (Old Operator): N1855-ExxonMobil Oil Corporation PO Box 4358 Houston, TX 77210-4358 Phone: 1 (281) 654-1936 </td> <td> TO: (New Operator): N2700-Resolute Natural Resources Company 1675 Broadway, Suite 1950 Denver, CO 80202 Phone: 1 (303) 534-4600 </td> </tr> </table>			FROM: (Old Operator): N1855-ExxonMobil Oil Corporation PO Box 4358 Houston, TX 77210-4358 Phone: 1 (281) 654-1936	TO: (New Operator): N2700-Resolute Natural Resources Company 1675 Broadway, Suite 1950 Denver, CO 80202 Phone: 1 (303) 534-4600
FROM: (Old Operator): N1855-ExxonMobil Oil Corporation PO Box 4358 Houston, TX 77210-4358 Phone: 1 (281) 654-1936	TO: (New Operator): N2700-Resolute Natural Resources Company 1675 Broadway, Suite 1950 Denver, CO 80202 Phone: 1 (303) 534-4600			
CA No.	Unit:	MC ELMO (UIC)		

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/21/2006
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/24/2006
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/7/2006
- Is the new operator registered in the State of Utah: YES Business Number: 5733505-0143
- If **NO**, the operator was contacted on:
- (R649-9-2)Waste Management Plan has been received on: requested
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA not yet
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/12/2006

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 6/22/2006
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/22/2006
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: 6/22/2006
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: n/a
- Indian well(s) covered by Bond Number: PA002769
- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
- The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

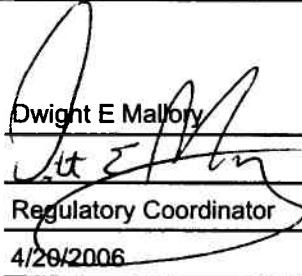
Well Name and Number See attached list	API Number Attached
Location of Well Footage : See attached list County : San Juan QQ, Section, Township, Range: State : UTAH	Field or Unit Name McElmo Creek Unit Lease Designation and Number See attached list

EFFECTIVE DATE OF TRANSFER: 6/1/2006

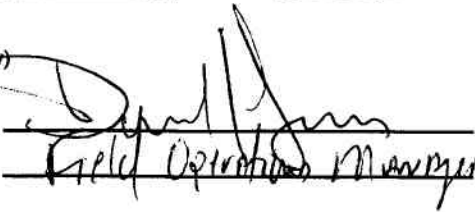
CURRENT OPERATOR

Company: Exxon Mobil Oil Corporation Name: _____
Address: PO Box 4358 Signature: _____
city Houston state TX zip 77210-4358 Title: _____
Phone: (281) 654-1936 Date: _____
Comments: Exxon Mobil has submitted a separate, signed copy of UIC Form 5

NEW OPERATOR

Company: Resolute Natural Resources Company Name: Dwight E Mallory
Address: 1675 Broadway, Suite 1950 Signature: 
city Denver state CO zip 80202 Title: Regulatory Coordinator
Phone: (303) 534-4600 Date: 4/26/2006
Comments: A list of affected UIC wells is attached.
New bond numbers for these wells are:
BIA Bond # PA002769 and US EPA Bond # B001252

(This space for State use only)

Transfer approved by: 
Title: Field Operations Manager

Approval Date: 6/12/06

Comments:

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DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

See attached list

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Navajo Tribe

7. UNIT or CA AGREEMENT NAME:

McElmo Creek Unit

8. WELL NAME and NUMBER:

See attached list

9. API NUMBER:

Attached

10. FIELD AND POOL, OR WILDCAT:

Greater Aneth

1. TYPE OF WELL

OIL WELL ☐ GAS WELL ☐ OTHER Unit Agreement

2. NAME OF OPERATOR:

Resolute Natural Resources Company N2700

3. ADDRESS OF OPERATOR:

1675 Broadway, Suite 1950 CITY Denver STATE CO ZIP 80202

PHONE NUMBER:

(303) 534-4600

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See attached list

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 1, 2006 Exxon Mobil Oil Corporation resigns as operator of the McElmo Creek Unit. Also effective June 1, 2006 Resolute Natural Resources Company is designated as successor operator of the McElmo Creek Unit.

A list of affected producing and water source wells is attached. A separate of affected injection wells is being submitted with UIC Form 5, Transfer of Authority to Inject.

As of the effective date, bond coverage for the affected wells will transfer to BIA Bond # PA002769.

NAME (PLEASE PRINT)

Dwight E Mallory

TITLE

Regulatory Coordinator

SIGNATURE

DATE

4/20/2006

(This space for State use only)

APPROVED 6/22/06

Earlene Russell

Division of Oil, Gas and Mining

Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED

APR 24 2006

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection</u>		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: ExxonMobil Oil Corporation <u>N 1855</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <u>Ship Rock</u>
3. ADDRESS OF OPERATOR: P.O. Box 4358 CITY <u>Houston</u> STATE <u>TX</u> ZIP <u>77210-4358</u>		7. UNIT or CA AGREEMENT NAME: <u>UTU68930A</u>
4. LOCATION OF WELL FOOTAGES AT SURFACE: _____		8. WELL NAME and NUMBER: <u>McElmo Creek</u>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		9. API NUMBER: <u>attached</u>
COUNTY: <u>San Juan</u>		10. FIELD AND POOL, OR WILDCAT: <u>Aneth</u>
STATE: <u>UTAH</u>		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/1/2006</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ExxonMobil Oil Corporation is transferring operatorship of Greater Aneth field, McElmo Creek lease to Resolute Natural Resources Company. All change of operator notices should be made effective as of 7:00 AM MST on June 1, 2006.

Attached please find a listing of injection wells included in the transfer.

NAME (PLEASE PRINT) <u>Laurie Kilbride</u>	TITLE <u>Permitting Supervisor</u>
SIGNATURE <u>Laurie B. Kilbride</u>	DATE <u>4/19/2006</u>

(This space for State use only)

APPROVED 6/22/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED
APR 21 2006

DIV. OF OIL, GAS & MINING

GREATER ANETH FIELD UIC WELL LIST
McElmo Creek lease, San Juan County, Utah

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
MCELMO CREEK	H11	430371635000S1	Active	14-20-0603-6145	NW	SE	36	40S	24E	1855FSL	2100FEL
MCELMO CREEK	I12	430371561900S1	Active	14-20-0603-6145	SE	SE	36	40S	24E	0595FSL	0595FEL
MCELMO CREEK	F11	430371561700S1	Shut-in	14-20-0603-6146	NW	SW	36	40S	24E	1885FSL	0820FWL
MCELMO CREEK	G12	430371561800S1	Active	14-20-0603-6146	SE	SW	36	40S	24E	1910FNL	2051FWL
MCELMO CREEK	D15	430371634100S1	Active	14-20-0603-6147	NW	SE	2	41S	24E	1830FSL	1830FEL
MCELMO CREEK	A17	430371633800S1	Active	14-20-0603-6148	NE	NE	10	41S	24E	1270FNL	0660FEL
MCELMO CREEK	C14	430371626500S1	Active	14-20-0603-6509	SE	NW	2	41S	24E	2140FNL	2140FWL
MCELMO CREEK	D13	430371626700S1	Active	14-20-0603-6510	NW	NE	2	41S	24E	0820FNL	1920FEL
MCELMO CREEK	E14	430371626800S1	Active	14-20-0603-6510	SE	NE	2	41S	24E	2050FNL	0500FEL
MCELMO CREEK	T08	430371637700S1	Shut-in	14-20-603-2048A	SW	SE	28	40S	25E	0660FSL	1980FEL
MCELMO CREEK	R09	430371614700S1	Active	14-20-603-2057	NW	NW	33	40S	25E	0500FNL	0625FWL
MCELMO CREEK	R11A	430373017900S1	Active	14-20-603-2057	NW	SW	33	40S	25E	2030FSL	0680FWL
MCELMO CREEK	R13	430371614800S1	Active	14-20-603-2057	NW	NW	4	41S	25E	0660FNL	0660FWL
MCELMO CREEK	R15	430371614900S1	Active	14-20-603-2057	NW	SW	4	41S	25E	1990FSL	0500FWL
MCELMO CREEK	S10	430371637500S1	Active	14-20-603-2057	SE	NW	33	40S	25E	1980FNL	1980FWL
MCELMO CREEK	S12	430371615000S1	Active	14-20-603-2057	SE	SW	33	40S	25E	0645FSL	2140FWL
MCELMO CREEK	S14	430371615100S1	Active	14-20-603-2057	SE	NW	4	41S	25E	2005FNL	1820FWL
MCELMO CREEK	S16	430371615200S1	Active	14-20-603-2057	SE	SW	4	41S	25E	0700FSL	1820FWL
MCELMO CREEK	T09A	430373008000S1	Active	14-20-603-2057	NW	NE	33	40S	25E	0940FNL	2035FEL
MCELMO CREEK	T13	430371637800S1	Active	14-20-603-2057	NW	NE	4	41S	25E	0500FNL	2090FEL
MCELMO CREEK	T15	430371637900S1	Active	14-20-603-2057	NW	SE	4	41S	25E	1880FSL	1890FEL
MCELMO CREEK	U10	430371638100S1	Active	14-20-603-2057	SE	NE	33	40S	25E	1980FNL	0610FSL
MCELMO CREEK	U12	430371615500S1	Active	14-20-603-2057	SE	SE	33	40S	25E	0660FSL	0805FEL
MCELMO CREEK	U14	430371615600S1	Active	14-20-603-2057	SE	NE	4	41S	25E	1980FNL	0660FEL
MCELMO CREEK	U16	430371615700S1	Active	14-20-603-2057	SE	SE	4	41S	25E	0550FSL	0745FEL
MCELMO CREEK	V13	430371638300S1	Active	14-20-603-2057	NW	NW	3	41S	25E	0660FNL	0660FWL
MCELMO CREEK	V15	430371638400S1	Active	14-20-603-2057	NW	SW	3	41S	25E	1980FSL	0560FWL
MCELMO CREEK	J17	430371549800S1	Active	14-20-603-263	NW	NW	7	41S	25E	0820FNL	0550FWL
MCELMO CREEK	J19	430371635600S1	Active	14-20-603-263	NW	SW	7	41S	25E	2056FNL	1997FWL
MCELMO CREEK	J21	430371549900S1	Active	14-20-603-263	NW	NW	18	41S	25E	0400FNL	0575FWL
MCELMO CREEK	K18	430371635700S1	Active	14-20-603-263	SE	NW	7	41S	25E	1830FNL	1808FWL
MCELMO CREEK	K20	430371550300S1	Active	14-20-603-263	SE	SW	7	41S	25E	0660FSL	1810FWL
MCELMO CREEK	K22X	430373040000S1	Active	14-20-603-263	SE	NW	18	41S	25E	2082FNL	1588FWL
MCELMO CREEK	K24	430371635800S1	Active	14-20-603-263	SE	SW	18	41S	25E	0660FSL	1801FWL
MCELMO CREEK	L17	430371636000S1	Active	14-20-603-263	NW	NE	7	41S	25E	0660FNL	1980FEL
MCELMO CREEK	L19	430371550500S1	Active	14-20-603-263	NW	SE	7	41S	25E	1860FSL	2140FEL
MCELMO CREEK	L21	430371550600S1	Active	14-20-603-263	NW	NE	18	41S	25E	0820FNL	1980FEL
MCELMO CREEK	L23	430371550700S1	Active	14-20-603-263	NW	SE	18	41S	25E	1980FSL	1980FEL
MCELMO CREEK	M18	430371551000S1	Active	14-20-603-263	SE	NE	7	41S	25E	1850FNL	0790FEL
MCELMO CREEK	M20	430371551100S1	Shut-in	14-20-603-263	SE	SE	7	41S	25E	0660FSL	0660FEL
MCELMO CREEK	N17	430371551400S1	Active	14-20-603-263	NW	NW	8	41S	25E	0810FNL	0660FWL
MCELMO CREEK	N19	430371551500S1	Active	14-20-603-263	NW	SW	8	41S	25E	1850FSL	0500FWL
MCELMO CREEK	N21	430371551600S1	Active	14-20-603-263	NW	NW	17	41S	25E	0660FNL	0660FWL
MCELMO CREEK	O18	430371551700S1	Active	14-20-603-263	SE	NW	8	41S	25E	1830FNL	1890FWL
MCELMO CREEK	P17	430371551900S1	Active	14-20-603-263	NW	NE	8	41S	25E	0660FNL	1980FEL

GREATER ANETH FIELD UIC WELL LIST
McElmo Creek lease, San Juan County, Utah

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
MCELMO CREEK	P19	430371552000S1	Active	14-20-603-263	NW	SE	8	41S	25E	2140FSL	1980FEL
MCELMO CREEK	P21	430371636900S1	Active	14-20-603-263	NW	NE	17	41S	25E	0660FNL	1980FEL
MCELMO CREEK	P23A	430373143900S1	Active	14-20-603-263	SW	NE	17	41S	25E	2531FNL	2325FEL
MCELMO CREEK	L25	430371550800S1	Active	14-20-603-264	NW	NE	19	41S	25E	0660FNL	1980FEL
MCELMO CREEK	R17	430371597600S1	Active	14-20-603-359	NW	NW	9	41S	25E	0740FNL	0560FWL
MCELMO CREEK	R19	430371637300S1	Active	14-20-603-359	NW	SW	9	41S	25E	1980FSL	0660FWL
MCELMO CREEK	R21	430371637400S1	Active	14-20-603-359	NW	NW	16	41S	25E	0511FNL	0562FWL
MCELMO CREEK	T17	430371638000S1	Active	14-20-603-359	NW	NE	9	41S	25E	0675FNL	1933FEL
MCELMO CREEK	E21	430371634300S1	Active	14-20-603-370	NE	NE	14	41S	24E	0660FNL	0660FEL
MCELMO CREEK	E23	430371634400S1	Active	14-20-603-370	NE	SE	14	41S	24E	2031FSL	0711FEL
MCELMO CREEK	G21A	430373097400S1	Active	14-20-603-370	NE	NW	13	41S	24E	0867FNL	1883FWL
MCELMO CREEK	G23	430371634800S1	Shut-in	14-20-603-370	NE	SW	13	41S	24E	2092FSL	1899FWL
MCELMO CREEK	G25	430371634900S1	Active	14-20-603-370	NE	NW	24	41S	24E	0660FNL	1980FWL
MCELMO CREEK	I23	430371635200S1	Active	14-20-603-370	NE	SE	13	41S	24E	1980FSL	0660FEL
MCELMO CREEK	I25	430371635300S1	Active	14-20-603-370	NE	NE	24	41S	24E	0530FNL	0820FEL
MCELMO CREEK	J11	430371635400S1	TA'd	14-20-603-372	NW	SW	31	40S	25E	1980FSL	0660FWL
MCELMO CREEK	J13	430371635500S1	Active	14-20-603-372	NW	NW	6	41S	25E	0621FNL	0580FWL
MCELMO CREEK	J15	430371595400S1	Active	14-20-603-372	NW	SW	6	41S	25E	1980FSL	0500FWL
MCELMO CREEK	K12	430371595500S1	Active	14-20-603-372	SW	SW	31	40S	25E	0670FSL	1970FWL
MCELMO CREEK	K14	430371595600S1	Active	14-20-603-372	SE	NW	6	41S	25E	1851FNL	1885FWL
MCELMO CREEK	K16	430371595700S1	Active	14-20-603-372	SE	SW	6	41S	25E	0660FSL	1816FWL
MCELMO CREEK	L09	430371635900S1	Active	14-20-603-372	NW	NE	31	40S	25E	0660FNL	1980FEL
MCELMO CREEK	L13	430371595900S1	Active	14-20-603-372	NW	NE	6	41S	25E	0778FNL	1917FEL
MCELMO CREEK	L15	430371596000S1	Active	14-20-603-372	NW	SE	6	41S	25E	1820FSL	1830FEL
MCELMO CREEK	M10	430371596100S1	Shut-in	14-20-603-372	SE	NE	31	40S	25E	1980FNL	0530FEL
MCELMO CREEK	M12	430371596200S1	Active	14-20-603-372	SE	SE	31	40S	25E	0590FSL	0585FEL
MCELMO CREEK	M14	430371596300S1	Active	14-20-603-372	SE	NE	6	41S	25E	2089FNL	0773FEL
MCELMO CREEK	M16	430371636100S1	Active	14-20-603-372	SE	SE	6	41S	25E	0660FSL	0660FEL
MCELMO CREEK	N09	430371596400S1	Shut-in	14-20-603-372	NW	NW	32	40S	25E	0628FNL	0615FWL
MCELMO CREEK	N11	430371596500S1	Active	14-20-603-372	NW	SW	32	40S	25E	2069FSL	0618FWL
MCELMO CREEK	N13	430371596600S1	Active	14-20-603-372	NW	NW	5	41S	25E	0840FNL	0505FWL
MCELMO CREEK	N15	430371636300S1	Active	14-20-603-372	NW	SW	5	41S	25E	2140FSL	820FWL
MCELMO CREEK	O12	430371596800S1	Active	14-20-603-372	SE	SW	32	40S	25E	0809FSL	1832FWL
MCELMO CREEK	O14	430371636500S1	Active	14-20-603-372	SE	NW	5	41S	25E	2056FNL	1997FWL
MCELMO CREEK	O16	430371596900S1	Active	14-20-603-372	SE	SW	5	41S	25E	0660FSL	1980FWL
MCELMO CREEK	P09	430371636700S1	Active	14-20-603-372	NW	NE	32	40S	25E	0598FNL	2100FEL
MCELMO CREEK	P11	430371597101S2	Active	14-20-603-372	NW	SE	32	40S	25E	2105FSL	2006FEL
MCELMO CREEK	P13	430371636800S1	Active	14-20-603-372	NW	NE	5	41S	25E	0610FNL	1796FWL
MCELMO CREEK	P15	430371597200S1	Active	14-20-603-372	NW	SE	5	41S	25E	1980FSL	1980FEL
MCELMO CREEK	Q10	430371597301S1	Active	14-20-603-372	SE	NE	32	40S	25E	1899FNL	0532FEL
MCELMO CREEK	Q16	430371597500S1	TA'd	14-20-603-372	SE	SE	5	41S	25E	0660FSL	0660FEL
MCELMO CREEK	F13	430371634500S1	Active	14-20-603-4032	NW	NW	1	41S	24E	0795FNL	0535FWL
MCELMO CREEK	F15A	430373114900S1	Active	14-20-603-4032	NW	SW	1	41S	24E	1920FSL	0624FWL
MCELMO CREEK	G14	430371614300S1	Active	14-20-603-4032	SE	NW	1	41S	24E	1980FNL	1980FWL
MCELMO CREEK	G16	430371614400S1	Active	14-20-603-4032	SE	SW	1	41S	24E	0820FSL	1820FWL
MCELMO CREEK	H13	430371635100S1	Active	14-20-603-4032	NW	NE	1	41S	24E	0540FNL	2110FEL
MCELMO CREEK	I-14	430371614500S1	Active	14-20-603-4032	SE	NE	1	41S	24E	1980FNL	0660FEL

GREATER ANETH FIELD UIC WELL LIST
McElmo Creek lease, San Juan County, Utah

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location							
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot	
MCELMO CREEK	F17	430371549300S1	Active	14-20-603-4039	NW	NW	12	41S	24E	0740FNL	0500FWL	
MCELMO CREEK	G18	430371549400S1	Active	14-20-603-4039	SE	NW	12	41S	24E	1980FNL	1980FWL	
MCELMO CREEK	H15	430371549500S1	Active	14-20-603-4039	NW	SE	1	41S	24E	1980FSL	1980FEL	
MCELMO CREEK	H17	430371549600S1	Active	14-20-603-4039	NE	NW	12	41S	24E	0660FNL	1980FEL	
MCELMO CREEK	I18	430371570900S1	Active	14-20-603-4495	SE	NE	12	41S	24E	1840FNL	0555FEL	
MCELMO CREEK	E19	430371634200S1	Shut-in	14-20-603-5449	NE	SE	11	41S	24E	1980FSL	0660FEL	
MCELMO CREEK	G19	430371634600S1	Active	14-20-603-5450	NE	SW	12	41S	24E	1350FSL	1800FWL	
MCELMO CREEK	I20	430371571000S1	Active	14-20-603-5451	SE	SE	12	41S	24E	0990FSL	0500FEL	
MCELMO CREEK	N07	430371636200S1	Active	I-149-IND-8839	NE	SW	29	40S	25E	2083FSL	745FWL	
MCELMO CREEK	P07	430371636600S1	Active	I-149-IND-8839	NW	SE	29	40S	25E	1820FSL	2140FEL	
MCELMO CREEK	O10	430371596700S1	Active	NOG99041325	SE	NW	32	40S	25E	2086FNL	1944FWL	